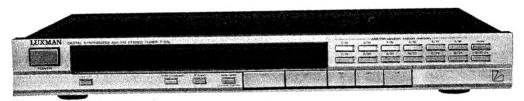


Digital Synthesized AM/FM Stereo Tuner TV JAPAN ONLY

# T-117/T-117L T-03/T-03L



T-03L



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## **Specifications**

Intermediate Frequency	10.7MHz
Frequency kange	76.1~ 89.9MHz (JA Model Only)
	87.5~108MHz (SD, EK Model) 87.9~107.9MHz(UZ Model Only)
Usable Sensitivity	13dBf(JA, EK, UZ Model)
(Mono 3% T.H.D)	16dBf(SD Model Only)
Signal to Noise Ratio(Stereo)	70dB
IF Response Ratio	70dB
Distortion(1KHz, Stereo)	0.2%
Stereo Separation(1KHs)	40dB
Frequency Response(30Hz ~15KHz)	±1.5dB
Quieting Sensitivity(Stereo, 50dB S/N)	45dBf
Output Level (Mono)	700mV±3dB
<am (mv)="" rad10=""></am>	
Intermediate Frequency	450KHz
Frequency kange	522~1611KHz(JA, SD, EK Model)
Usable Sensitivity(20d8 S/N)	530~1620KHz (UZ Model Only) 76,2dBf
Signal to Noise Ratio	42dB
Image Response Ratio(1KHz)	ADDR
IF Response Ratio	Andra Andra
Distortion Programme (1998)	11%
Out put Level	±3dB
	21UmV ± 3dB
<lw radio=""> (SD Model Only)</lw>	
Intermediate Frequency	450KHz
lisable Sensitivity (20dR S/N)	153 ~ 281KHz
Image Response Ratio	
IF Response Ratio	97dR
Distortion	
Output Level	210mV±3dB
	42dB
<tv> (JA Model Only)</tv>	
Channel Range	54,25MHz
Usable Sensitivity(30dR S/N)	1 ~ 69ch
Usable Sensitivity(30dB S/N)	1 ~ 62ch 2ch: 20dBf
Usable Sensitivity(30dB S/N)	1 ~ 69ch
Usable Sensitivity(30dB S/N)	1 ~ 62ch 2ch: 20dBf
Usable Sensitivity(30dB S/N)	1 ~ 62ch 2ch: 20dBf 32ch: 25dBf 2ch Mono: 48dB Stereo: 45dB Main: 48dB
Usable Sensitivity(30dB S/N)	1 ~ 62ch 2ch: 20dBf 32ch: 25dBf 2ch Mono: 48dB Stereo: 45dB Main: 48dB Sub: 48dB
Usable Sensitivity(30dB S/N)	1 ~ 62ch 2ch: 20dBf 32ch: 25dBf 2ch Mono: 48dB Stereo: 45dB Main: 48dB Sub: 48dB 32ch Mono: 40dB
Usable Sensitivity(30dB S/N)	1 ~ 62ch 2ch: 20dBf 32ch: 25dBf 2ch Mono: 48dB Stereo: 45dB Main: 48dB Sub: 48dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio	1 ~ 62ch 2ch: 20dBf 32ch: 25dBf 2ch Mono: 48dB Stereo: 45dB Main: 48dB Sub: 48dB 32ch Mono: 40dB Stereo: 40dB Agin: 40dB Stereo: 40dB Main: 40dB Stereo: 40dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Frequency Response(50Hz ~10KHz)	1 ~ 62ch 2ch: 20dBf 32ch: 25dBf 2ch Mono: 48dB Stereo: 45dB Main: 48dB Sub: 48dB 32ch Mono: 40dB Stereo: 40dB Main: 40dB Stereo: 40dB Main: 40dB Sub: 40dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Frequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz, Stereo)	1 ~ 62ch 2ch:20dBf 32ch:25dBf 2ch Mono:48dB Stereo:45dB Main:48dB Sub:48dB 32ch Mono:40dB Stereo:40dB Main:40dB Stereo:40dB Main:40dB Sub:40dB Sub:40dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Frequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz, Stereo)	1 ~ 62ch 2ch: 20dBf 32ch: 25dBf 32ch: 25dBf 2ch Mono: 48dB Stereo: 45dB Main: 48dB Sub: 48dB 32ch Mono: 40dB Stereo: 40dB Main: 40dB Sub: 40dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Frequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz. Stereo)  Channel Separation(1KHz)	1 ~ 62ch 2ch: 20dBf 32ch: 25dBf 32ch: 25dBf 2ch Mono: 48dB Stereo: 45dB Main: 48dB Sub: 48dB 32ch Mono: 40dB Stereo: 40dB Hain: 40dB Sub: 40dB -+1,-3dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Frequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz. Stereo)  Channel Separation(1KHz)	1 ~ 62ch 2ch: 20dBf 32ch: 25dBf 32ch: 25dBf 2ch Mono: 48dB Stereo: 45dB Main: 48dB Sub: 48dB 32ch Mono: 40dB Stereo: 40dB Stereo: 40dB Ain: 40dB Sub: 40dB Sub: 40dB Sub: 40dB Main: 40dB Sub: 40dB Sub: 40dB Sub: 40dB Main: 40dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Prequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz, Stereo)  Channel Separation(1KHz)  Output Lebel	1 ~ 62ch 2ch:20dBf 32ch:25dBf 2ch Mono:48dB Stereo:45dB Main:48dB Sub:48dB 32ch Mono:40dB Stereo:40dB Main:40dB Sub:40dB -+1,-3dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Frequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz. Stereo)  Channel Separation(1KHz)  Output Lebel	1 ~ 62ch 2ch:20dBf 32ch:25dBf 32ch:25dBf 2ch Mono:48dB Stereo:45dB Main:48dB Sub:48dB 32ch Mono:40dB Stereo:40dB Main:40dB Sub:40dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Frequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz. Stereo)  Channel Separation(1KHz)  Output Lebel	1 ~ 62ch 2ch: 20dBf 32ch: 25dBf 32ch: 25dBf 2ch Mono: 48dB Stereo: 45dB Main: 48dB Sub: 48dB 32ch Mono: 40dB Stereo: 40dB Hain: 40dB Sub: 40dB -+1,-3dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Frequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz. Stereo)  Channel Separation(1KHz)  Output Lebel <ceneral> Power Supply</ceneral>	1 ~ 62ch 2ch:20dBf 32ch:25dBf 32ch:25dBf 2ch Mono:48dB Stereo:45dB Main:48dB Sub:48dB 32ch Mono:40dB Stereo:40dB Main:40dB Stereo:40dB Hain:40dB Sub:40dB -+1,-3dB1.8% Stereo 25dB Main-Sub 40dB Sub-Main 45dB 700mV±3dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Prequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz. Stereo)  Channel Separation(1KHz)  Output Lebel <general> Power Supply  Power Consumption</general>	1 ~ 62ch 2ch:20dBf 32ch:25dBf 32ch:25dBf 2ch Mono:48dB Stereo:45dB Main:48dB Sub:48dB 32ch Mono:40dB Stereo:40dB Main:40dB Stereo:40dB Main:40dB Sub:40dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Frequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz. Stereo)  Channel Separation(1KHz)  Output Lebel <ceneral> Power Supply</ceneral>	1 ~ 62ch 2ch:20dBf 32ch:25dBf 32ch:25dBf 2ch Mono:48dB Stereo:45dB Main:48dB Sub:48dB 32ch Mono:40dB Stereo:40dB Main:40dB Stereo:40dB Main:40dB Sub:40dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Prequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz. Stereo)  Channel Separation(1KHz)  Output Lebel <general> Power Supply  Power Consumption</general>	1 ~ 62ch 2ch:20dBf 32ch:25dBf 32ch:25dBf 2ch Mono:48dB Stereo:45dB Main:48dB Sub:48dB 32ch Mono:40dB Stereo:40dB Main:40dB Stereo:40dB Hain:40dB Sub:40dB -+1,-3dB1.8% Stereo 25dB Main-Sub 40dB Sub-Main 45dB 700mV±3dB  100V, 50/60Hz(JA Model Only) 220V, 50Hz(SD, EK Model) 120V, 60Hz(UZ Model Only) 15W  241C's 59 Transistors, 8 FET's, 73 Diodes, 10 Zener Diodes (JA Model Only)
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Prequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz. Stereo)  Channel Separation(1KHz)  Output Lebel <general> Power Supply  Power Consumption</general>	1 ~ 62ch 2ch:20dBf 32ch:25dBf 2ch Mono:48dB Stereo:45dB Main:48dB Sub:48dB 32ch Mono:40dB Stereo:40dB Main:40dB Stereo:40dB Main:40dB Sub:40dB Sub:
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Prequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz. Stereo)  Channel Separation(1KHz)  Output Lebel <general> Power Supply  Power Consumption</general>	1 ~ 62ch 2ch:20dBf 32ch:25dBf 2ch Mono:48dB Stereo:45dB Main:48dB Sub:48dB 32ch Mono:40dB Stereo:40dB Main:40dB Stereo:40dB Main:40dB Sub:40dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Frequency Response(50Hz ~10KHz)  Distortion(2ch. 1KHz. Stereo)  Channel Separation(1KHz)  Output Lebel  GENERAL> Power Supply  Power Consumption  Semiconductors	1 ~ 62ch 2ch:20dBf 32ch:25dBf 2ch Mono:48dB Stereo:45dB Main:48dB Sub:48dB 32ch Mono:40dB Stereo:40dB Main:40dB Sub:40dB
Usable Sensitivity(30dB S/N)  Signal to Noise Ratio  Frequency Response(50Hz ~10KHz) Distortion(2ch. 1KHz. Stereo) Channel Separation(1KHz)  Output Lebel  GENERAL> Power Supply  Power Consumption Semiconductors	1 ~ 62ch 2ch:20dBf 32ch:25dBf 2ch Mono:48dB Stereo:45dB Main:48dB Sub:48dB 32ch Mono:40dB Stereo:40dB Main:40dB Stereo:40dB Main:40dB Sub:40dB

## Parts Locations and Disassembly Instructions

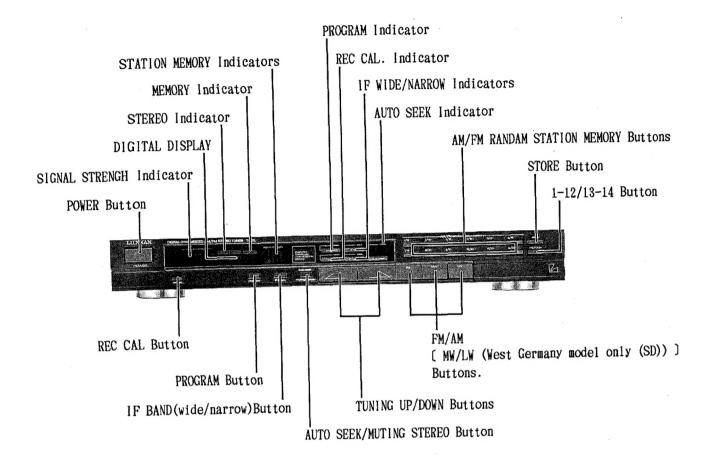


Figure 1

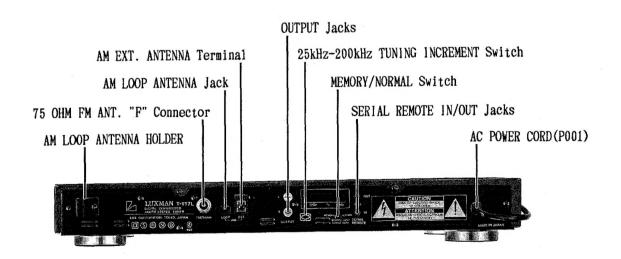
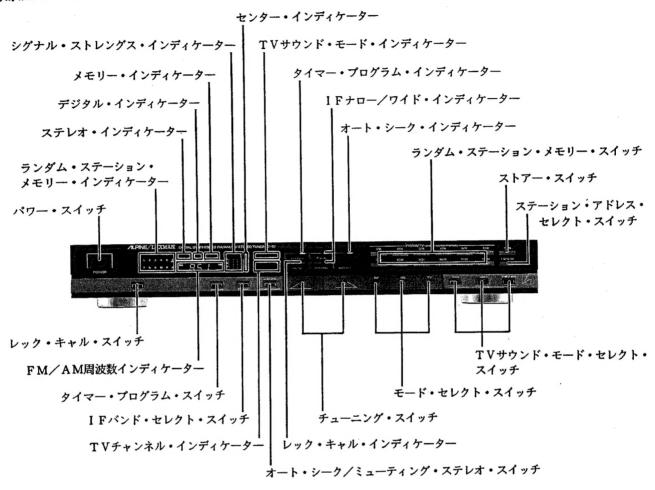
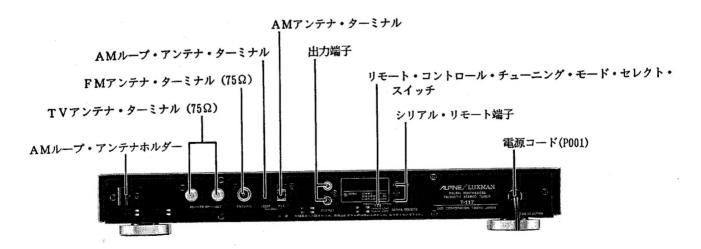


Figure 2

### • Japanese model only(JA)



< 3 図>



< 4 図>

## 1. Removal of Top Cover

- Remove six screws marked "O" as shown in Figure 5 and 6.
- (2) Pull out the Top cover in the direction of the arrow as shown in Figure 3.

## 1. 上蓋の外し方

- (1) 6本のネジ"○"を外します。 (5,6図参照)
- (2) 矢印の方向に引き上げれば、上蓋は外すことができます。(3 図参照)

## 2. Removal of Main P.C. Board

- (1) After removal of Top cover, remove eleven screws marked "※" as shown in Figure 6 and 7.
- (2) Disconnect all wires from the Main P.C. Board.
- (3) Main P.C. Board can be removed by pulling it forward.

#### 2. メイン基板の外し方

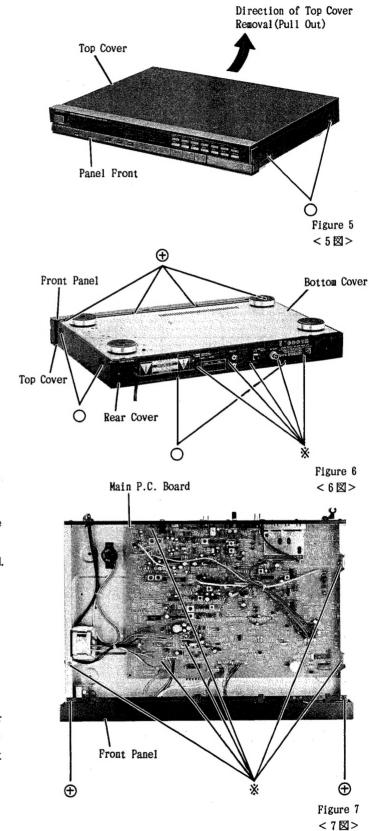
- (1) 上蓋を外してから11本のネジ "※" を外します。 (6, 7図参照)
- (2) メイン基板から出ているすべてのリードを外します。
- (3) メイン基板を手前に引いて外します。

### 3. Removal of Front Panel

- Remove six screws marked "⊕" as shown in Figure 6 and 7.
- (2) Front panel can be removed by pulling it forward. But when the panel is engaged tightly, pull the panel end little by little, and the panel will be removed easily.

### 3. フロント・パネルの外し方

- (1) 上蓋を外してから、6本のネジ \*⊕\* を外します。(6,7図参照)
- (2) フロント・パネルを手前に引いて外します。パネルを 外すときパネルはセットにしっかりと取りつけてあり ますので、パネルの両端を持って少しづつ引くように して外してください。



### 4. Removal of Front Frame

- After removal of Front Panel, remove eight hooks(a) as shown in Figure 8 and 9.
- (2) Unplug all the connectors from the display P.C. board and switch P.C. board. The front frame will be removed together with the P.C. boards.

## 4. フロント・フレームの外し方

- (1) フロント・パネルを外してから、8個のホック(a) を 外します。(8,9図参照)
- (2) ディスプレイ基板,スイッチ基板から出ている全ての コネクターを外しますと,各基板と一緒にフロント・ フレームは外れます。

## 5. Removal of Display P.C. Board

- (1) After removal of Front Frame, remove three screws marked " ◎ " as shown in Figure 10.
- (2) Remove three hooks(b) as shown in Figure 10.

#### 5. ディスプレイ基板の外し方

- (1) フロント・パネルを外してから、3本のネジ \*◎\* を 外します。 (10図参照)
- (2) 3 個のツメ(b) を外しますと、ディスプレイ基板は 外れます。

#### 6. Removal of Switch P.C. Board

- (1) After removal of Front Frame, remove three screws marked "□" as shown in Figure 10.
- (2) Remove eight hooks(c) as shown in Figure 10.

### 6. スイッチ基板の外し方

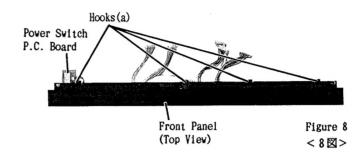
- (1) フロント・フレームを外してから、3本のネジ "□" を外します。(10図参照)
- (2) 8 個のツメ(c) を外しますと、スイッチ基板は外れます。

#### 7. Removal of Power Switch P.C. Board

(1) After removal of Front Frame, remove two screws marked "O" as shown in Figure 10.

### 7. パワースイッチ基板の外し方

(1) フロントフレームを外してから、2本のネジ "回" を 外しますと、パワースイッチ基板は外れます。 (10図参照)



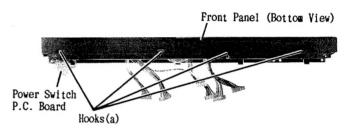
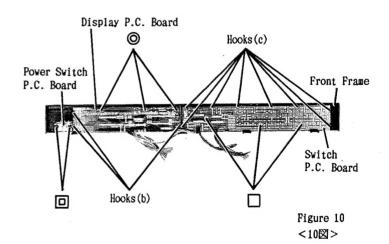
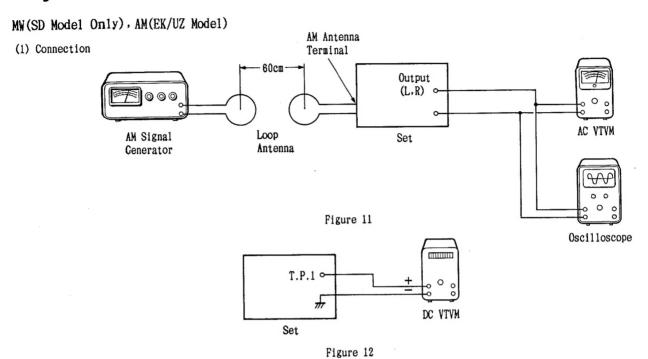


Figure 9 < 9図>



## **Adjustment Procedures**



(2) Control Setting

Power Switch----ON
FM/AM/(MW/LW) Switch----AM(MW)
others----OFF

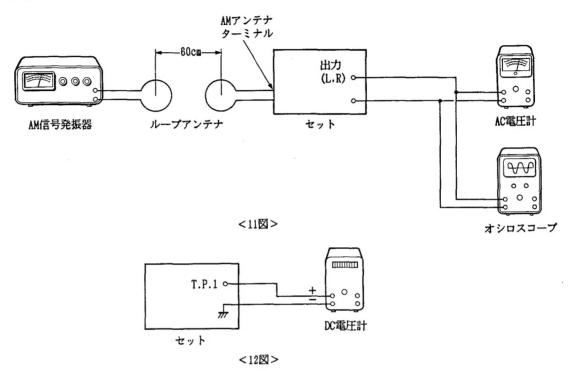
## (3) Adjustment (EK.SD.UZ Model)

step	Description	Signal Generator	Dial Control	Adjust Points	Test Points	Connection	Remarks
1	Vf		603KHz(EK.SD) 600KHz(UZ)	L306	TP1	Figure 12	Adjust Vf to 2.2±0.1V at L306
-	Adjustment		1404KHz (EK.SD) 1400KHz (UZ)	VC304		Figure 12	Adjust Vf to 7.1±0.1V at VC304
2	Sensitivity	603KHz(EK.SD) 600KHz(UZ) 60dBm (400Hz.30%)	603KHz (EK.SD) 600KHz (UZ)	L302	Output	Figure 11	Adjust the output to
	Adjustment	1404KHz(EK.SD) 1400KHz(UZ) 60dBm (400Hz.30%)	1404KHz (EK.SD) 1400KHz (UZ)	VC302	(L.R)	rigure 11	Adjust the output to maximum at VC304
3	SIG IND & MUTE level Adjustment	1008KHz(EK.SD) 1000KHz(UZ) 55dBm (400Hz.30%)	1008KHz (EK.SD) 1000KHz (UZ)	VR302 VR301 VR501	Output (L.R)	Figure 11	Set VR501 to the position which is *shightly turned counterclockwise from horizontal. Adjust the level to 55dBm ± 12dB at VR302 with the MUTE switch set to ON. Adjust the level to 75 +2010 dBm at both VR501 and VR301 so that one or two elements of SIG IND light up. Note:For the section marked with *. refer to VR501 shown in Fig. 21.

## 調整方法

## AM(JA Model Only)





## (2) スイッチ類のセット位置

電源スイッチ・・・・・・ON FM/AM/TVスイッチ・・・・・AM その他・・・・・・OFF

### (3) 調整方法 (JAモデル)

順序	調整項目	発振器周波数	受信周波数	調整個所	テスト ポイント	接続図	調 整 方 法			
	A APPAREN		603KHz	L306	T D 1	1057	L306で 2.2±0.1Vに調整			
1	Vf調整		1404KHz	VC304	T.P.1	12🖾	VC304 で 7.1±0.1Vに調整			
	(400Hz.30%)		603KHz	L302	出力	1.157/	L302で出力最大に調整			
2	感度調整	1404KHz 60dBm (400Hz,30%)	1404KHz	VC302	(L,R)	11🖾	VC302 で出力最大に調整			
3	SIG. IND & MUTE レベル調整	1008KHz 55dBm (400Hz.30%)	1008KHz	VR302 VR301 VR501	出力 (L.R)	11⊠	VR501 を *水平より少し反時計 方向よりに設定し、MUTE-SW ON 状態で VR302で 55dBm±12dBに 調整, この時 SIG.1NDが1~2 点灯する様 VR301とVR501 で 75 +2010dBm に調整 (注) * 印は21図のVR501 を参照願い ます。			

## LW(SD Model Only)

### (1) Connection

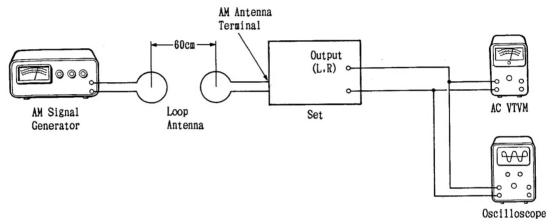


Figure 13

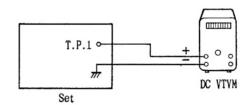


Figure 14

## (2) Control Setting

Power Switch.	ON
FM/AM/(MW/LW)	SwitchLW
others	OFF

## (3) Adjustment

step	Description Signal Dial Adjust Test Generator Control Points Points		Connection	Remarks			
1	Vf			L305	TP1	Figure 14	Adjust Vf to 2.4±0.1V at L305
	Adjustment		261KHz	VC303	111	Ligure 14	Adjust Vf to 5.3±0.1V at VC303
2	Sensitivity	180KHz.90dBm (400Hz.30%)	180KHz	L301	Output	Figure 13	Adjust the output to maximum at L301
	Adjustment	261KHz.90dBm (400Hz.30%)	261KHz	VC301	(L.R)	Piguio 10	Adjust the output to maximum at VC301

## FM(SD/EK/UZ Mode1)

(1) Dummy Antenna

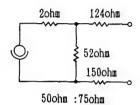
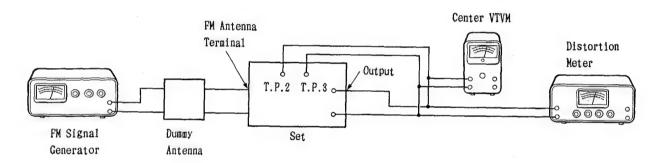


Figure 15

## (2) Connector



Pigure 16

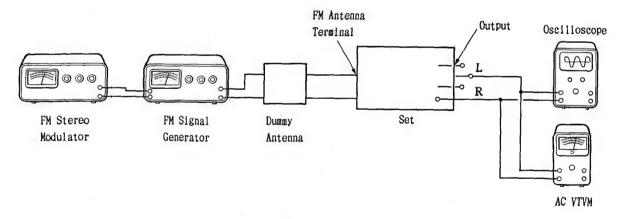


Figure 17

## (3) Control Setting

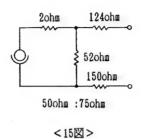
Power SwitchON
FM/AM/(MW/LW) SwitchFM
othersOFF

## (4) Adjustment(EK.SD.UZ model)

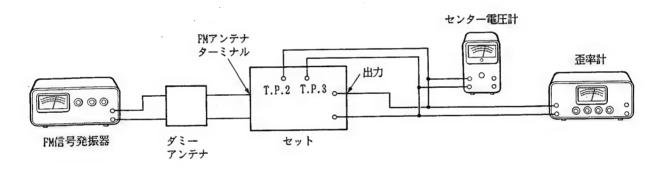
step	Description	Signal Generator	Dial Control	Adjust	Test	Connection	Remarks
1	IF Adjustment	98.1MHz 65dBf Non Modulation	98.1MHz	Points L105	T.P.2 T.P.3	Figure 16	Adjust the level to 0±20mV at L105
2	Mono Distortion Adjustment	98.1MHz 36dBf 1KHz.75KHz Deviation	98.1MHz	VR204 L206 L205 L101 L208 L209	Output (L.R)	Figure 18	Turn VR202 fully clockwise and VR201 fully counterclockwise. Adjust the output to 700mV at VR404.  Turn VR204 fully counterclockwise and turn it clockwise little by little untic the distortion will lower twice.  AT this position adjust the distortion to minimum.  Readjust VR404 to 700mV and adjust the distortion to minimum at L206.L205.L101.L208 and L209 in this order.
3	STEREO Distortion Adjustment	98.1MHz 36dBf 1KHz.75KHz Deviation	98.1MHz	L104	Output (L.R)	Figure 16	Adjust the dislortion to minimum at L104.
4	Pulse Detectiont Output Adjustment	98.1MHz 36dBf 1KHz.75KHz Deviation	98.1MHz	VR404	Output (L.R)	Figure 16	Adjust the output to 700mV +0.5dB at VR404 with the REC CAL switch set to ON.
5	PLL Detection Output Distortion Adjustment	98.1MHz 36dBf 1KHz.75KHz Deviation	98.1MHz	VR201 VR203 L202	Output (L.R)	Figure 16	Turn VR201 fully clockwise.  Adjust the output to 700mV +0.5dB at VR203.  Adjust the distortion to minimum at L202.
6	PUL/pulse Detection Output Switching Level Adjustment	98.1MHz 36dBf 1KHz.75KHz Deviation	98.1MHz	VR201	Output (L.R)	Figure 16	Adjust at VR201 so that the output level is varied from 700mV ±0.5dB to 700mV +1.5dB.
7	PLL Detection Output Adjustment	98.1MHz 36dBf 1KHz.75KHz Deviation	98.1MHz	VR203	Output (L.R)	Figure 16	Adjust the output to 700mV +1.5dB at VR203 with the REC CAL switch set to ON.
8	SIC IND Light Adjustment	98.1MHz 19dBf (EK.UZ) 22dBf (SD)	98.1MHz	VR103 VR102	Output (L.R)	Figure 16	Turn VR103 fully counterclockwire. Adjust at VR102 so that the first element of SIG IND lights up
9	IF NARROW Again Adjustment	98.1MHz 66dBf 1KHz.75KHz Deviation - L(R) signal	98.1MHz	VR101	Output (L.R)	Figure 16	Adjust at VR101 so that SIG IND lights up, with the NARROW switch set to ON.
10	Separation Adjustment	98.1MHz 66dBf 1KHz.75KHz Deviation L(R) signal	98.1MHz	VR401 VC401 VR402 VC402	Output (L.R)	Figure 17	Receive an L-channel to minimum at VR401 and VC401.  (Adjust the waveform leaking to L-channel to minimum at VR402 and VC402.)

## FM(JA Model Only)

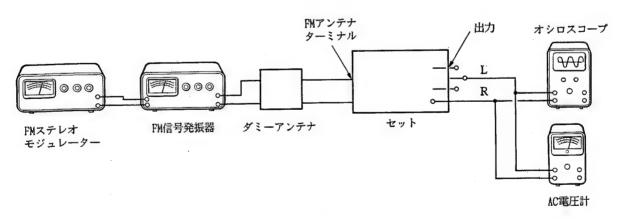
(1) ダミーアンテナ



## (2) 接続図



<16図>



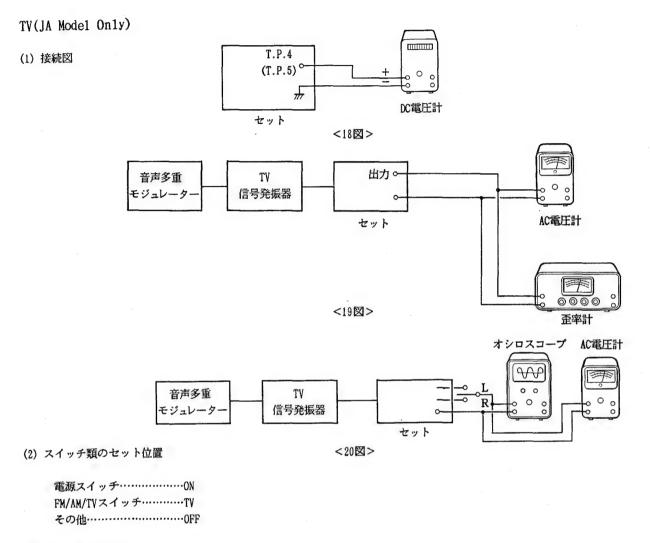
<17図>

## (3) スイッチ類のセット位置

電源スイッチON
FM/AM/TVスイッチ·····FM
その他OFF

## (4) 調整方法 (JAモデル)

順	序	調整項目	発振器周波数	受信周波数	調整個所	テスト ポイント	接続図	調 整 方 法			
1		IF調整	84MHz 85dBf Non Modulation	84MHz	L105	T.P.2 T.P.3	16🖾	L105で 0 ±20mVに調整			
2		モノラル歪調整	84MHz 36dBf 1KHz.75KHz Deviation	84MHz	VR204 L206 L205 L101 L208 L209	出力 (L・R)	16⊠	VR202 を時計方向, VR201 を 反時計方向に廻し切り, VR404 で 出力を700mV に設定し, VR204 を 反時計方向に廻し切り, 少しずつ 戻し歪が2度目に小さくなる所で 最小にする。VR404 を再度700mV に設定し, L206.L205.L101.L208, L209の順で歪を最小にする。			
3	3	ステレオ歪調整	84MHz 38dBf 1KHz.75KHz Deviation	84MHz	L104	出力 (L.R)	16🖾	L104で歪を最小にする。			
4	1	パルス検波 出力調整	84MHz 36dBf 1KHz.75KHz Deviation	84MHz	VR404	出力 (L.R)	16図	レック・キャル・スイッチ-ON VR404 で700mV+1.5dB に調整			
	5	PLL 検波 出力歪調整	84MHz 36dBf 1KHz,75KHz Deviation	84MHz	VR201 VR203 L202	出力 (L.R)	16図	VR201 を時計方向に廻し切り, VR203 で出力を700mV+0.5dB に 調整し, L202で歪を最小にする。			
(	6	PLL/パルス 検波出力 切換レベル調整	84MHz 36dBf 1KHz.75KHz Deviation	84MHz	VR201	出力 (L.R)	16図	VR201 で700mV+0.5dB から 700mV+1.5dB に変化する様調整			
,	7	PLL 検波 出力調整	84MHz 36dBf 1KHz.75KHz Deviation	84MHz	VR203	出力 (L.R)	16図	レック・キャル・スイッチ~ON VR203 で700mV+1.5dB に調整			
	8	SIC IND 点灯調整	84MHz 19dBf 1KHz.75KHz Deviation	84MHz	VR103 VR102	出力 (L.R)	16図	YR103 を反時計方向に廻し切り、 YR102 でシグナル・インディケー ター第1灯が点灯する様調整			
,	9	IF. NARROW ゲイン調整	84MHz 19dBf 1KHz.75KHz Deviation	84MHz	VR101	出力 (L.R)	16図	NARROW SW-ON VR101 でシグナル・インディケー ターが点灯する様調整			
1	.0	セパレーション 調整	84MHz 60dBf 1KHz.75KHz Deviation L(R)信号	84MHz	VR401 VC401 VR402 VC402	出力 (L.R)	17図	Lchを受信し、Rchへのもれ波形 をVR401.VC401 で最小にする。 (Rchも同様にVR402.VC402 で 最小にする)			



## (3) 調整方法 (JAモデル)

順月	字	調整項目	発振器周波数	受信周波数	調整個所	テスト ポイント	接続図	調 整 方 法				
1		AGC 電圧調整	2ch 101.75MHz 75dBμ 1KHz.25KHz Deviation	2ch 101.75MHz	VR104	T.P.4	1812	VR104 で 4±1.0Vに調整				
2 感度調整		感度調整	2ch 101.75MHz 20dBμ Non Modulation	101.75MHz 2ch 20dBμ 101.75MHz		出力	19🖾	L604で歪を最小に調整				
3		PILTER調整	2ch 101.75MHz 64dB μ ステレオ	2ch 101.75MHz	VR701	T.P.5	18図	VR701 で電圧を最大に調整				
4		セパレーション 調整	2ch 101.75MHz L(R)信号 1KHz.25KHz Deviation	2ch 101.75MHz	VR702	出力	20🖾	VR702 でL→R, R→Lの もれが同一になる様調整				

## **Adjustment Locations**

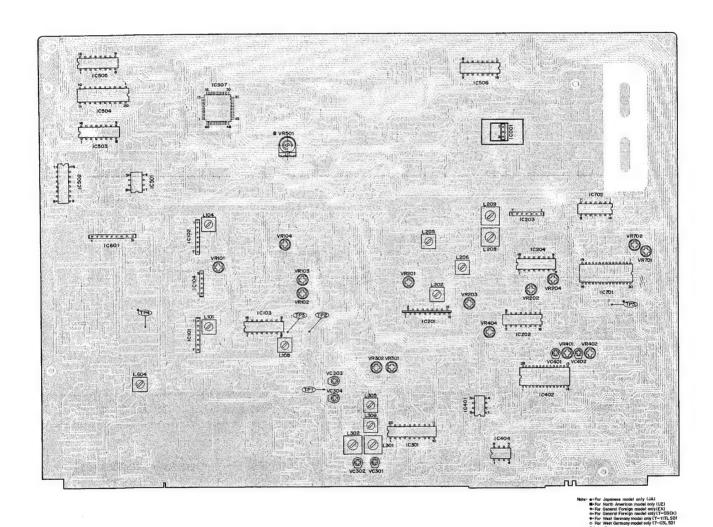
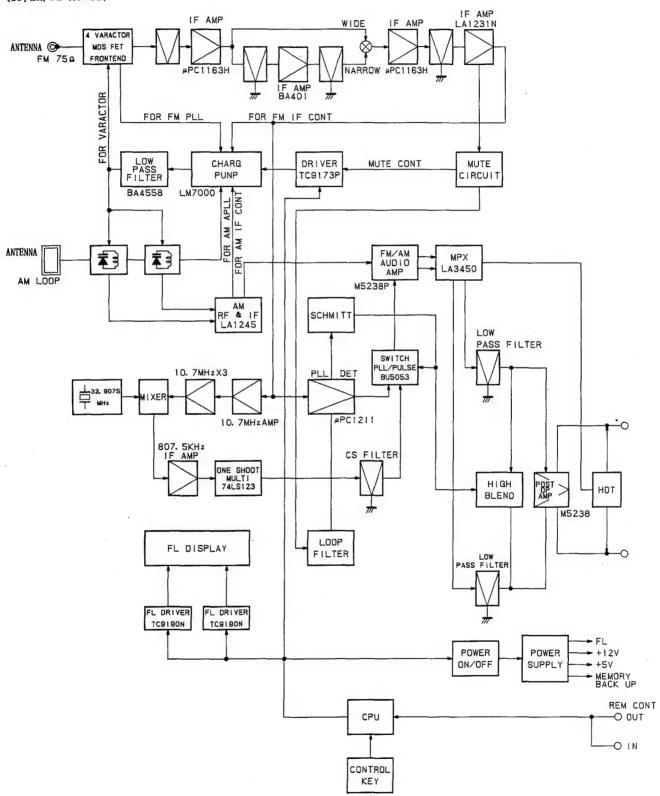


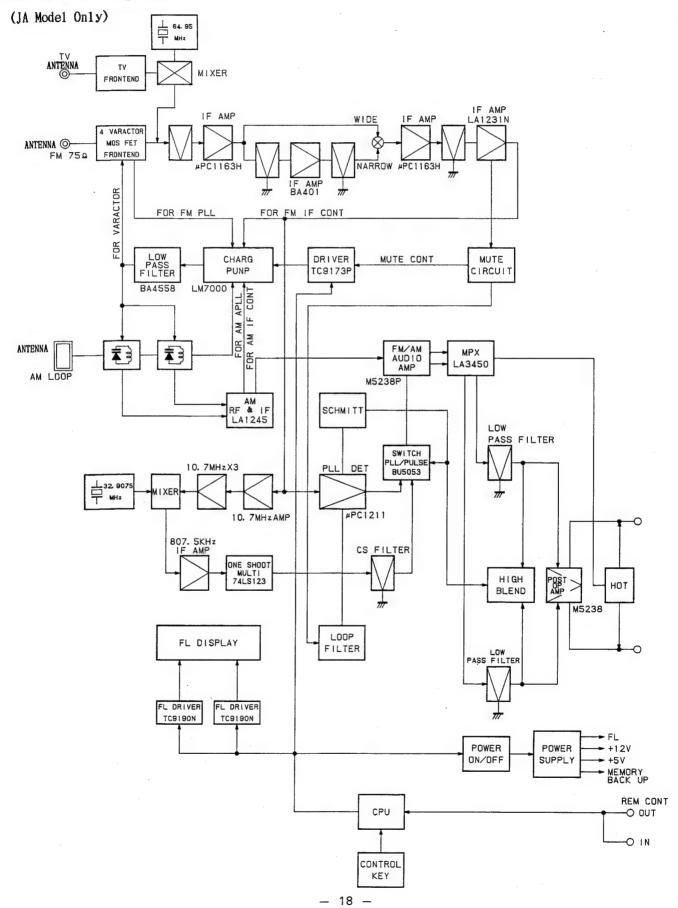
Figure 21 <21図>

## **Block Diagram**

(SD/EK/UZ Mode1)

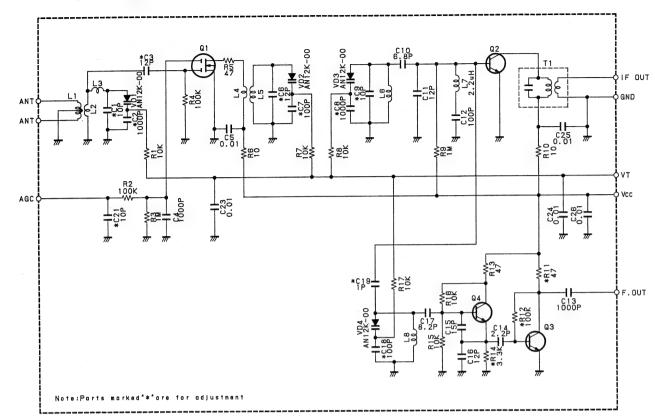


## **Block Diagram**

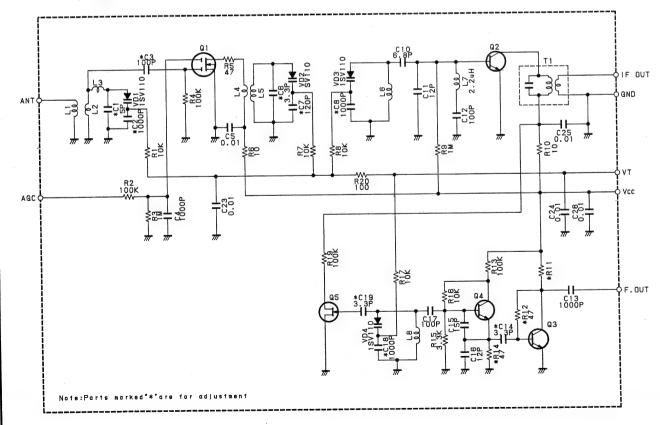


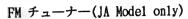
## FM Tuner Schematic Diagram

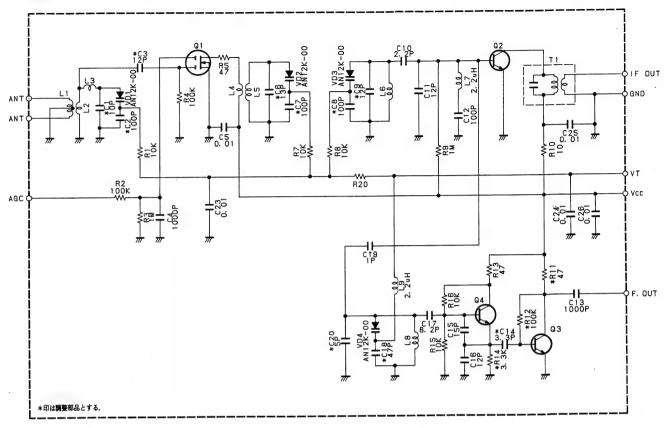
FM TUNER(EK, UZ Model only)



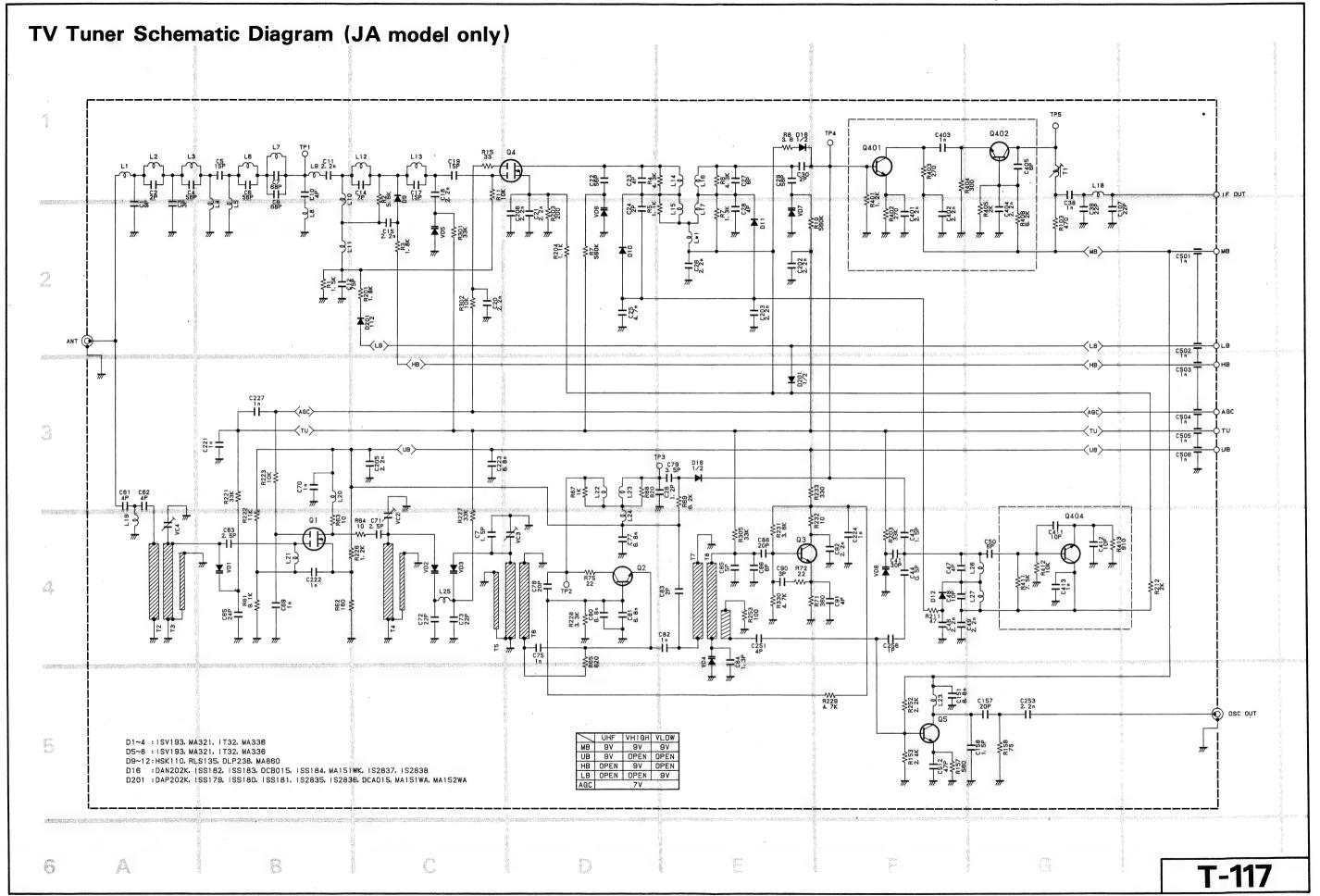
FM TUNER(SD Model only)

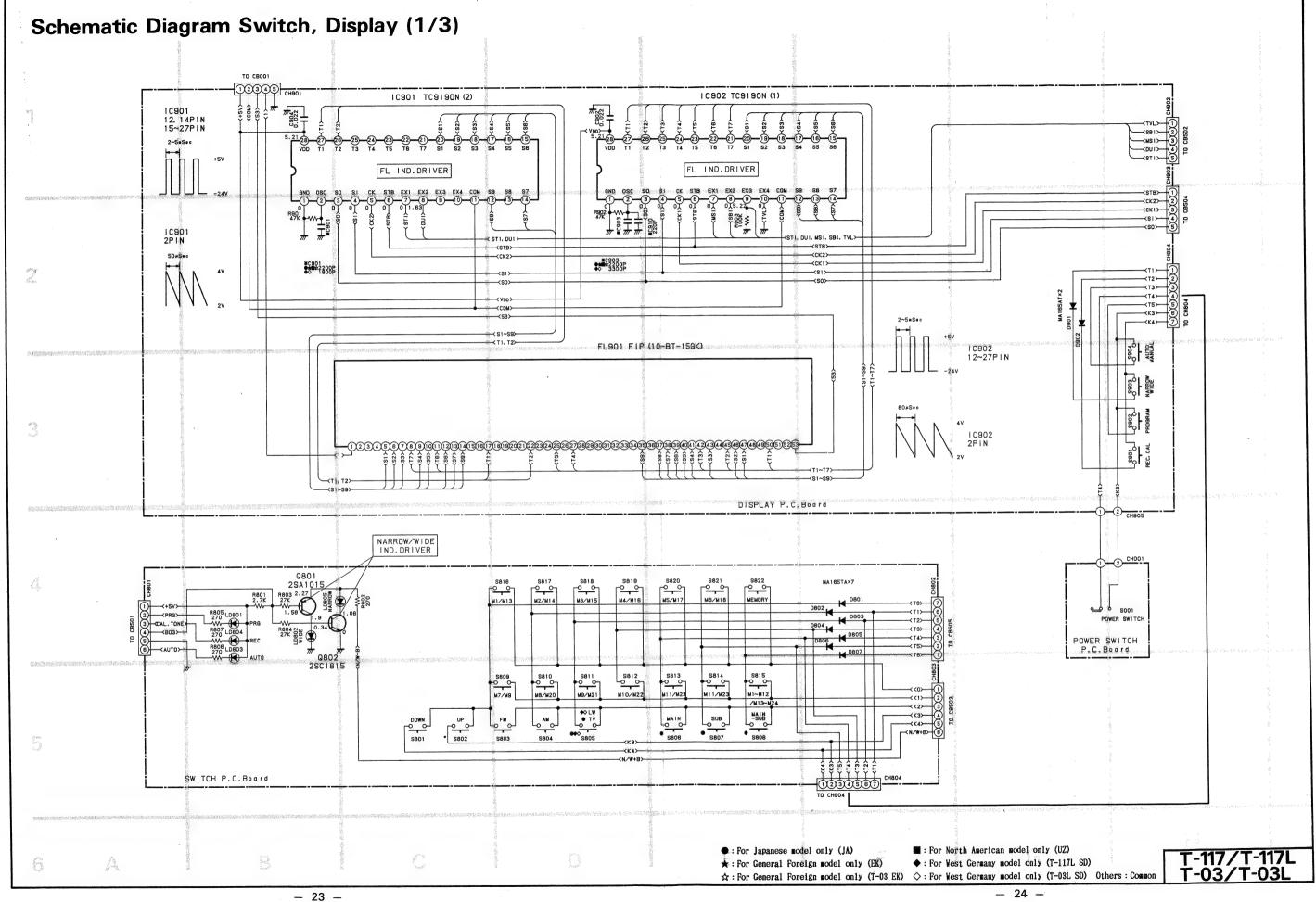






T-117/T-117L T-03/T-03L





#### Terminal Voltage

										16	11	12	13	1.4	1.5	16	17	1 8	19	2.0
	11	2	3	4	5	- 6		- 8		1.0		- 12	10		1					
1C001	19.18V	OV	12.02V																	<del></del>
IC101	8.17V	8.177	0.33V	OY	1.09V	2.717	2.71V													
IC102	8.18V	8.18V	0.32V	ov	1.08V	2.69V	2.69V									0.0511/01				
IC108	2.717	2.71V	0.44V	OV .	OV	_	5.66V	5.62V	5.637	5.64V	8.87V	4.7V(01nput) 0V(651nput)	1.1V(01nput) 5.65V(651nput)	OV	1.94V(01 nput) 0.04V(65 i nput)	0.65V(0input) 0.9V(65input)				
IC104	1.38V	1.38V	OV	8.37V	8.89V															
IC201	8.84V	5.83V	0.48V(01 nput) 1.49V(651 nput)	0.02Y	2.28V	5.91V	2.28V	2.27V	OY	OV	0.06V	5.23V	5.23V	5.23V	5.23V	2.87V	2.757	2.84Y	5.11 <b>V</b>	
IC202	_	_	OY	0.02V	0.03V	OV	OY	OV	8.86V	8.86Y	8.86V	_	_		-	8.86V				
IC208	1.96V	1.97Y	7.18V	OY	7.85V	1.96V	1.977													ļ
1C204	OY	_	2.49V	_	1.84V	0.017	1.96Y	94	0¥	1.17	5.28V	-	-	_	_	5.28V				
IC801	5.54V	2.15V	2.72V	ογ	5.68Y	2.06V	7.72V	7.72Y	2.789	5.27¥	0.69Y	OV	2.2¥	9.18V	1.33V	0.0V (0input) 4.28V (100input)	1.82V (0input) 2.98V (100input)	5.63Y	5.6V	2.87¥
1C404	4.84V	4.84V	4.84V	OY	4.84V	4.84V	4.84Y	9.72¥												
1C501	9.947	1.39V	1.38V	OV	1.38V	3.36V	1.31V	26.52Y												
IC502	QV	VO	94	OY	5.18¥	0.21V	0.59Y	OV	3.84Y		2.02V	V	2.02V	5.18¥		OV				
IC503	OV	0.85V	0.84V	0.23V	OV	0.75V	0.747	0.75¥	0.02Y(U) 5.02Y(VL.VH)	0.02V(VH) 5.02V(VL.U)	0.02V(VL) 5.02V(VH.U)	V	OV	OV	OV	5.18V	:			· .
1C504	1.447	0.02Y	0.02V	0.02Y	0.02Y	5.13V	1	9.43V	0.049	0.03Y	0.06Y	0.06Y	0.06V	2.43V	5.19V	5.19V	-1	1.38V	OV	1.417
IC505	VO	3.85V	0.02V	0.02Y	0.08Y	0.03Y	0.08V	5.1 <b>8V</b>	4.19V	4.61V	4.42Y	OY	O¥	OV	97	5.19V			ļ	<u> </u>
IC506	_		OV	OV .	OY	OV	OV	VO	5.247	OY	OV					5.19V				
IC601	0.02V (VL) 5.18V(etc.)	0.02V (VH) 5.18V(etc.)	0.02V (U) 5.13V(etc.)	9.81V	YO	8.28V (U) 0V (etc.)	8.28V (VH) OV (etc.)	8.28V (VL) 0V (etc.)	8.46V			A 4511 (501 05)	0.000(70/ 07)							
10702	0.5V(PM ST) 8.02V(etc.)	6.02V (FM ST)		6.02V (H+S)	4.12V(Manual) 0.33V(Auto)	0.17V(Manual) 6.06V(Auto)	OY	6.02V(Sub) 0V (etc.)	0.62Y(Sub) 5.81Y(etc.)	6.02V(Main) 0V (etc.)	0.62V(Main) 5.81V(etc.)	6.07Y(1V ST) 0V (etc.)	0.62V(IV SI) 6.07V(etc.)	6.08¥						

																1.6	1.7	1.9	1 0	20
	T 1	2	3	4	5	6	7	8	9	10	11	1.2	1 3	14	1.5	1.0	11	1.0	1.5	
	5.56V	3.27V	2.62V	2.62V	2.62V	2.59V	2.64V	2.59V	2.63V	3.63V(Manual) 0.4V (Auto)	2.28V	4.677	0.5V (ST) 5.95V (Mono)	YO	2.26V	5.67¥	5.68V	5.64V	5.64V	5.63V
1C402	2 1	2 2	2 3	2 4	2 5	2 6	2 7	2 8												
	5.63Y	5.65V	5.81V	5.61Y	VO	0.38V	5.64¥	9.9 <sup>2V</sup>												

																	4.5		- 1 ^	0.0
	1 1	9	2		5	6	7.	8	9	10	1 1 1	1 2	1. 13	1 1 4	1.5	1.6	17	1.8	19	20
	9.01V (TV)	2.147	2.14V	0.88V	2.05V	3.53V	3.55V	_	_	3.52V	8.52V	0.62V (ST) 6.07V(etc.)	0.62V(Main) 5.81V(etc.)	0.62V(Sub) 5.81V(etc.)	OV	2.39V		0.42V(Main) 0.97V(etc.)	0.42Y(Sub) 0.97Y(etc.)	0.17V(Manual) 6.06V(Auto)
10701	2 1	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0										
	8 05V	3.06V	3.06V	2.387	2.33V	8.45V	2.01V	<u> </u>	3.05V	-	1									

																			1.0	
	1	2	3	4	5	6	7	8	9	10	11	1 2	1 3	14	1.5	1 6	17	18	19	20
		_	_	_	_	_	_	_	_	_	_	-	_	-	_	_	_	_		
1	2.1	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3 1	3 2	3 3	3 4	3 5	3 6	3 7	3 8	3 9	4 0
1C507	_	_	5.17V	0.02Y	0.02Y	0.02Y	0.027	0.37	0.39	0.62Y	0.03Y	4.8Y	4.6V	4.99V	OV	2.39V	OV.	5.42V	5.02Y	0.087
1	41	4 2	4 3	44	4.5	4.6	47	4 8	4 9	5 0	5 1	5 2	5 3	5 4	5.5	5 6	5 7	5 8	5 9	5.0
	5.17V	OV	OV	OY	OY	5.22V	5.22V	5.75V	OY	2.2Y	1.78V	OV	5.22V	-	-	_				

	T 1	2	3	4	5	6	7	8	9	10
PE101	OV	OV	4V(0 IN) 0V(65 IN)	OV	B.42Y~20.73Y	VO	OV	9.837	Oγ	2.58V

	1	2	3	4	5	6	7	8
FE601	OV	9.81V(TV)		8.28Y(VL) OV (etc.)	8.82V	8.28V(VH) 0V (etc.)	2V~24V (Vf)	8.28V(U) OV (etc.)

#### NOTES:

- 1. All resistance values are in ohms. K-1.000
- 2. All capacitance values are in microfarads. P= 1.000.000
- 3. All the diodes without indication are MA165TA.
- 4. When replacing varactor diodes, VD301~VD304 always use a diode with the same ranc.

Voltage Measuring Conditions

· Power Supply Voltage

: AC 100V, 50/60Hz (JA model only) AC 120V, 60Hz (UZ model only)

AC 200V. 50Hz (EK. SD model only)

Measuring Meter

· Measuring point reference : Between Ground

: Digital Multi Voltmeter

: No Signal FM 84MHz Measuring Conditions

AM 1.008KHz (others) 1.000KHz (UZ model only)

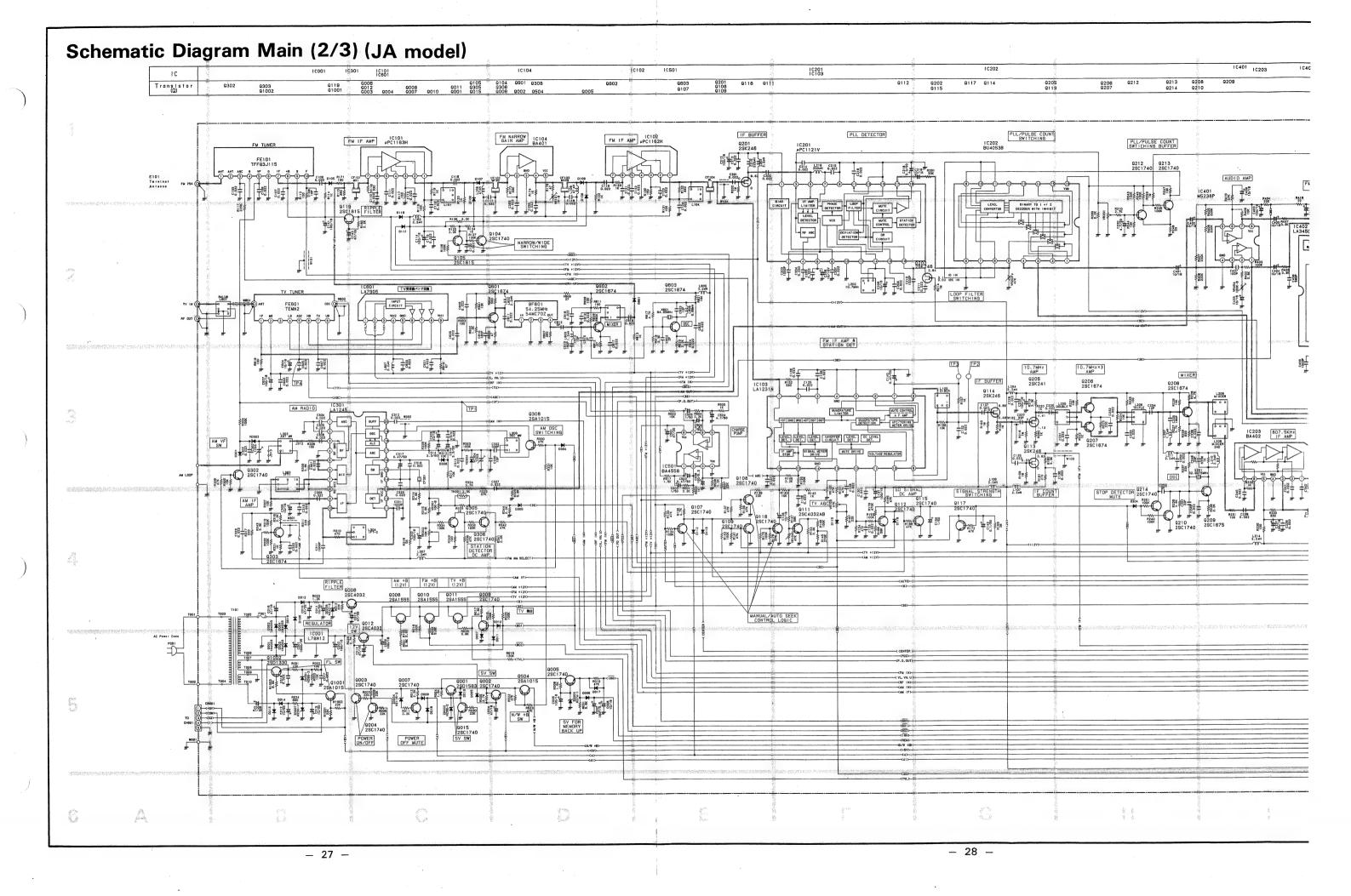
TV 2ch

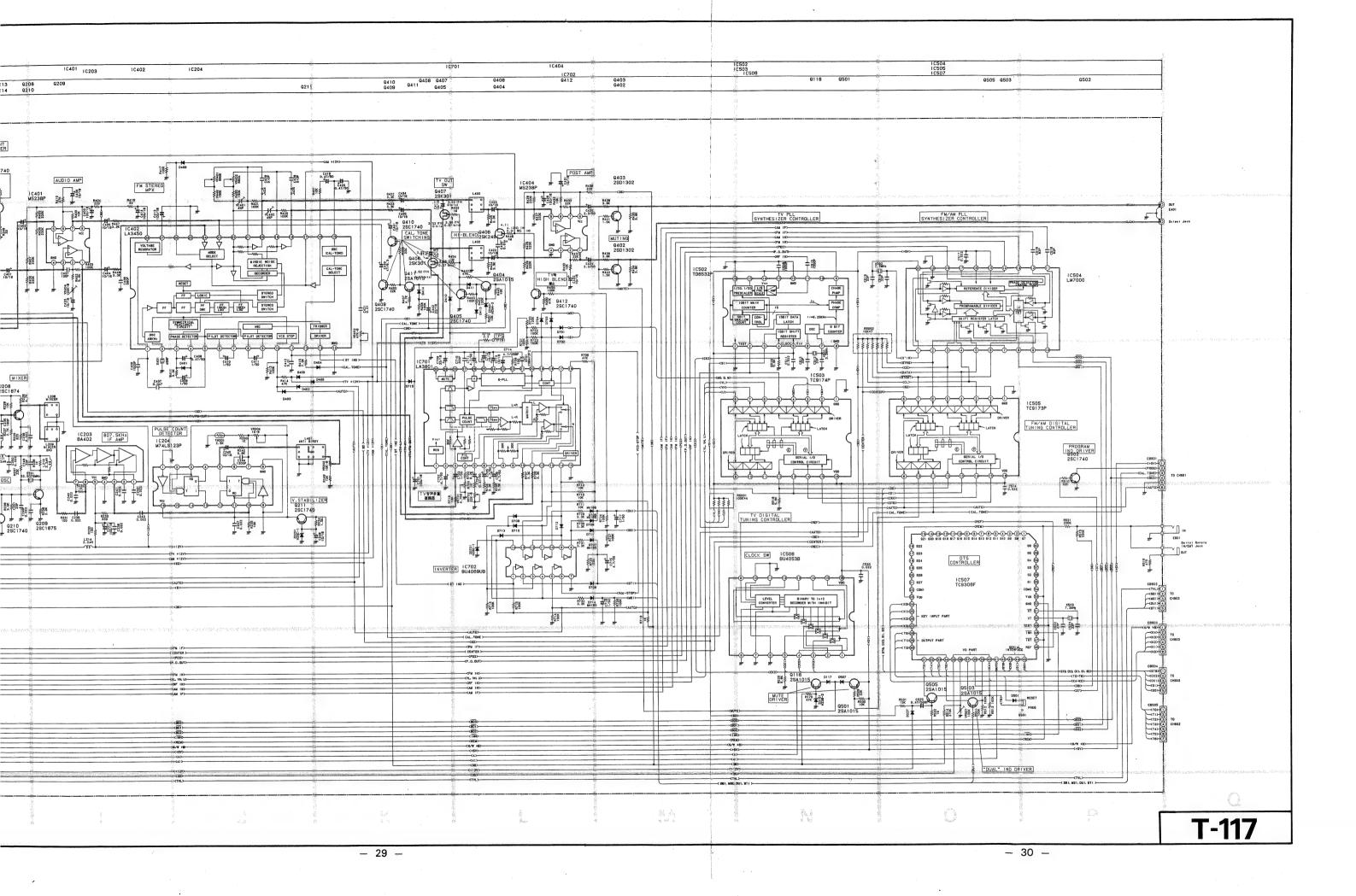
3 0 lnput→0 dB $\mu$  lnput (No Signal) 65 lnput→65dB $\mu$  lnput VL→VHF Low (1 ~ 3 cH)

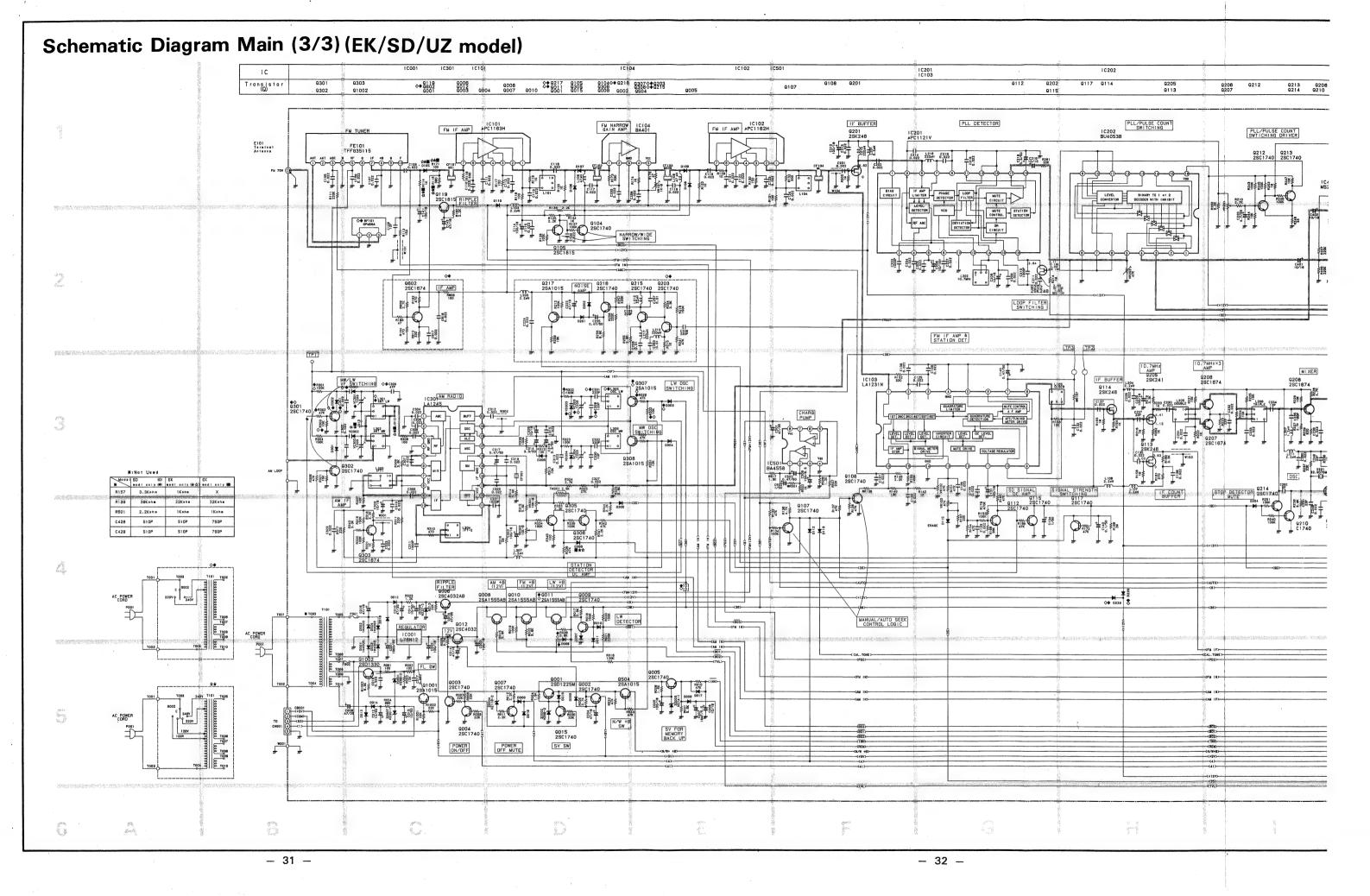
VH→VHF High (4 ~12cH)
U→UHF (13~62cH)
100 Input→ 100dB μ Input

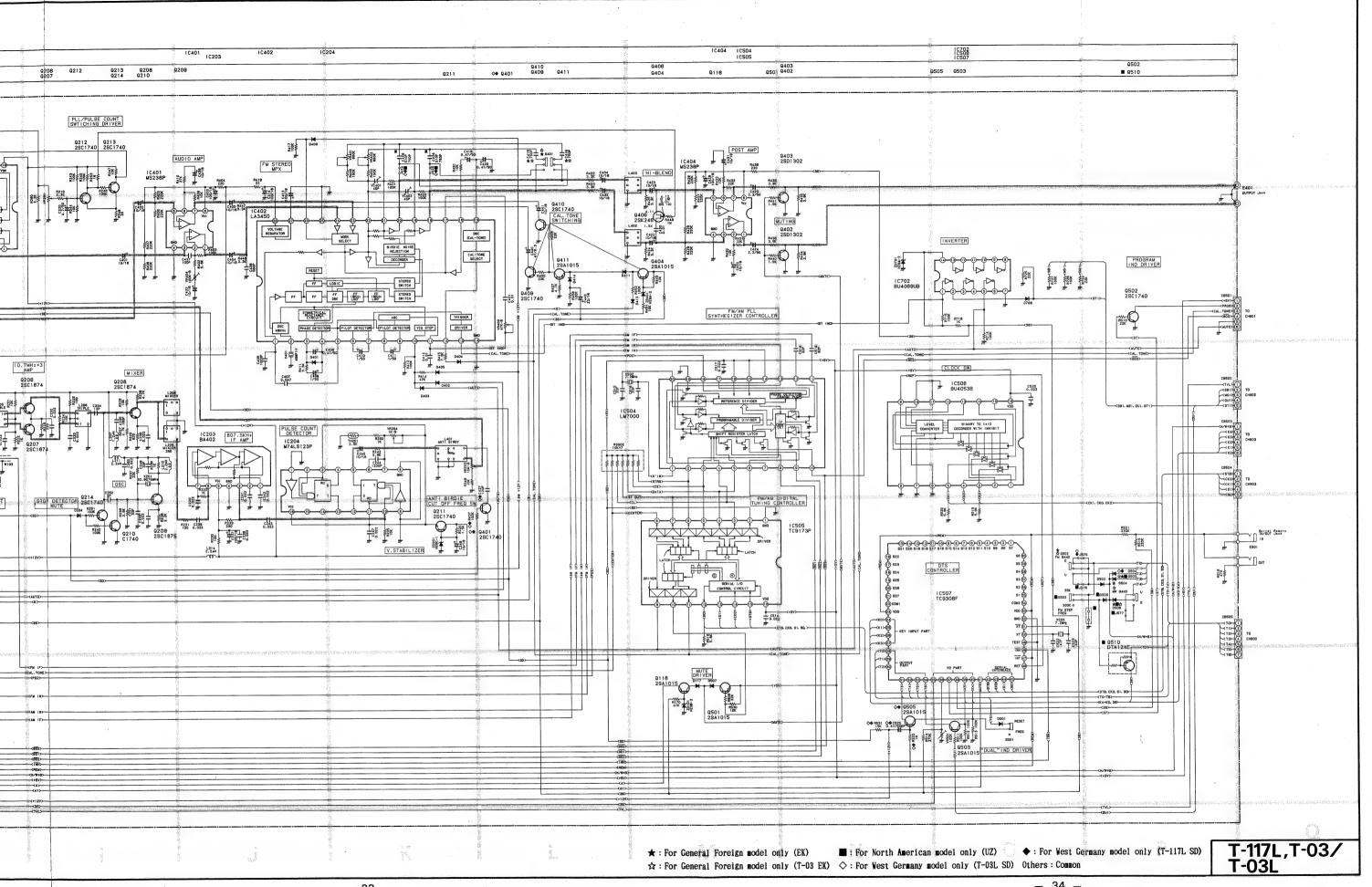
		c	В
Q1001	E. 4.17V	4.137	3.47V
Q1002	4.37V	4.82V	3.68V
Q001	5.21V	12.017	5.75V
Q002	4.479	5.21V	5.12V
Q003	OY	11.99V	οv
Q004	OV	0.017	D.63Y
Q005	5.85V	12.02V	6.47V
Q006	26.52V	27.87V	27.45V
Q007	8¥	0.04Y	0.677
Q008	10.64V	10.01V (AM) 0.76V(etc.)	9.33V (AM) 10.51V(etc.)
Q009	0.31V	10.35Y	0.767
Q818	10.64¥	9.83V (FM) OV (etc.)	9.09V (PM) 10.58V(etc.)
Q011	10.64V	9.81V (TV) 0.07V(etc.)	9.03V (TV) 10.27V(etc.)
Q012	10.63¥	12.02V	11.99V
Q015	OV	5.75V	94
Q104	OV	0.07V (V) 0.97V (N)	0.62V (V) 0.05V (N) 0.84V (V)
Q105	OV	2.19V (V) 0.05V (N)	0.84V (V) 0.83V (N)
Q107	OV	0.08V(Manual) 8.16V(Auto 0) 0.78V(Auto B5)	0.66V(Manual ) 0.31V(Auto)
Q108	θ¥	0.9V(Manual) 0V (Auto 0) 0.9V(Auto 65)	0.24V(Manual) 0.82V(Auto 0) 0.04V(Auto 85)
Q109	OV	0.08V(Manual) 8.16V(Auto 0) 0.78V(Auto 65)	0.54V (TV) 0.08V(etc.)
Q111	ov	3.85V(TV 65) 7.07V(TV 0) 0.04V(PM/AM)	1.26V(TV 65) 0.86V(etc.)
Q112	OV	0.05V(01nput) 8.57V(851nput)	0.87 (01nput) 07(851nput)
0115	OY	8.84V(0input)	0.033Y01mput)
Q118	0.08V (Manual) 2.49V (Auto 0)	0.03V(85input) 0.03V(Manual) 2.42V(Auto 0)	0.63V(65input)
0117	0.08V(Auto 85)	0.08V(Auto 85) 0V (01nput)	0.62V(01nput)
0118	OV	2.17V(65imput) 0.01V	0.08V(65input) 0.62V (TV)
Q119	8.76Y	9.87V	0.02V(etc.) 9.49V
Q208	1.27V	4.82V	1.917
Q206	0.187	8.81V	0.85Y
Q207	0.187	8.81V	0.85V
Q208	OV (Oisput)	8.89V(01nput)	0.06Y(01nput)
	1.18V(651nput) 0V (01nput)	2.06V(851nput)	1.88V(65input)
Q209	0.57V(651mput)	8.89V	1.17V(851nput)

	E	C 0.06V(0 nput)	B 0.61V(0 nput)
Q210	07	1.17V(651 nput)	0.16V(651 nput)
Q211	5:28V	8.86V	5.977
Q212	0.03V(01nput) 0V(651nput)	4.47V(0input) 0.01V(65input)	0.43V(01nput) 0.61V(651nput)
Q213	0.03V(01mput) 0V (651mput)	0.08V(0 nput) 8.87V(65 nput)	0.65V(0input) 0.01V(65input)
0214	OV	0:04V(0 nput)	0.61V(01nput) 0.16V(651nput)
0215	4.21V	1.83V(651nput) 8.87V	4.82V
Q218	3.56V	8.89V	4.117
	8.89V	8.84V	8.24V
Q217	8.834	0.01V (NW)	
Q801	OV	1.26V~ 5.91V(LW)	0.84V (MW) 0.84V (LW)
Q302	OV	1.17V~ 8.74V(HW) 0.01V(LW)	0.02V (NW) 0.84V (LW)
Q303	1.76V	5.72V	2.52V
Q305	0.45V (01nput) 0.02V(1001nput)	7.04V (01nput) 0.07V(1001nput)	0.82V (01nput) 0.84V(1001nput)
Q306	0.45V (01nput)	0.56V (01mput)	1.14V (0input)
4900	0.02V(100 input)		0.07V(100lnpit) 8.28V(MW)
Q307	5.83V	5.59¥	4.97V(LW) 4.98V(NW)
Q308	5.83V	5.59V	8.32V(LW)
Q401	OV	OV	0.517
Q402	OV	OV	0.68V(Mute) 0V (etc.)
Q403	OY	OV	0.68V(Mute) OV 0
Q404	10.61V	9.54V(Cal) 0.03V(etc.)	9.93V(Cal) 10.67V(etc.)
Q485	QV	9.27V (TV) 0.01V (Cal) 0.09V(etc.)	0.62V (Cal) 0.08V(etc.)
Q409	OY	OV	0.67V (TV) 0V (etc.)
Q410	OV	OV	0.67V (TV) 0V (etc.)
Q411	9.11V (TV)	9.1V (TV) 0V (etc.)	8.37V (TV) 0V (etc.)
Q412	0.05V(etc.)	0.01V(DUAL)	0.62V(DUAL)
Q501	5.19V	4.23V(etc.) 0.27V	0.21V(etc.)
Q501 Q502	0V	3.2V	OV
Q502 Q503	5.017	5.08V	4.51V
	4.41V	4.14V(FM/TV)	3.54V(PM/TV)
Q504		0.02V(etc.) 9.5V	7.04V(etc.)
Q801	0.497	9.01	1.201
Q602 (SD model only)	0.517	7.769	1.25V
Q602 (JA model only)	0.02V	9.58V	0.76V
Q608	0.75V	3.15V	1.217
	1		



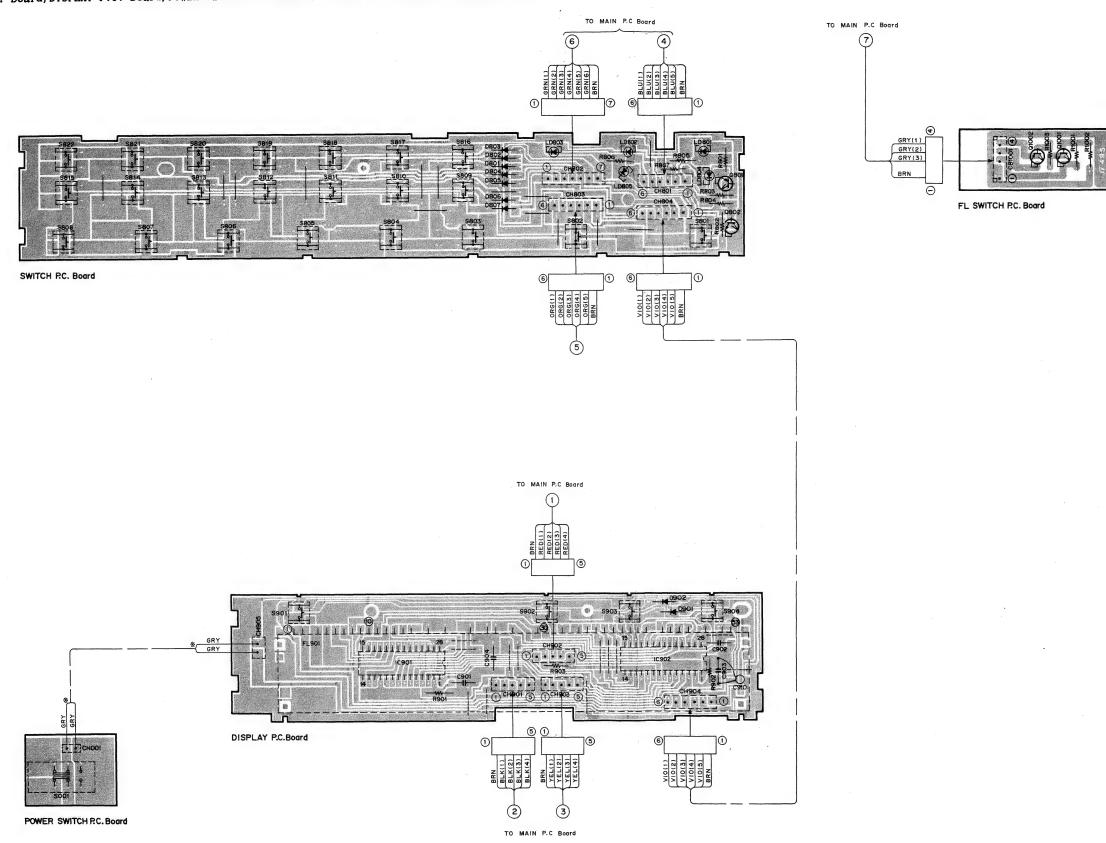




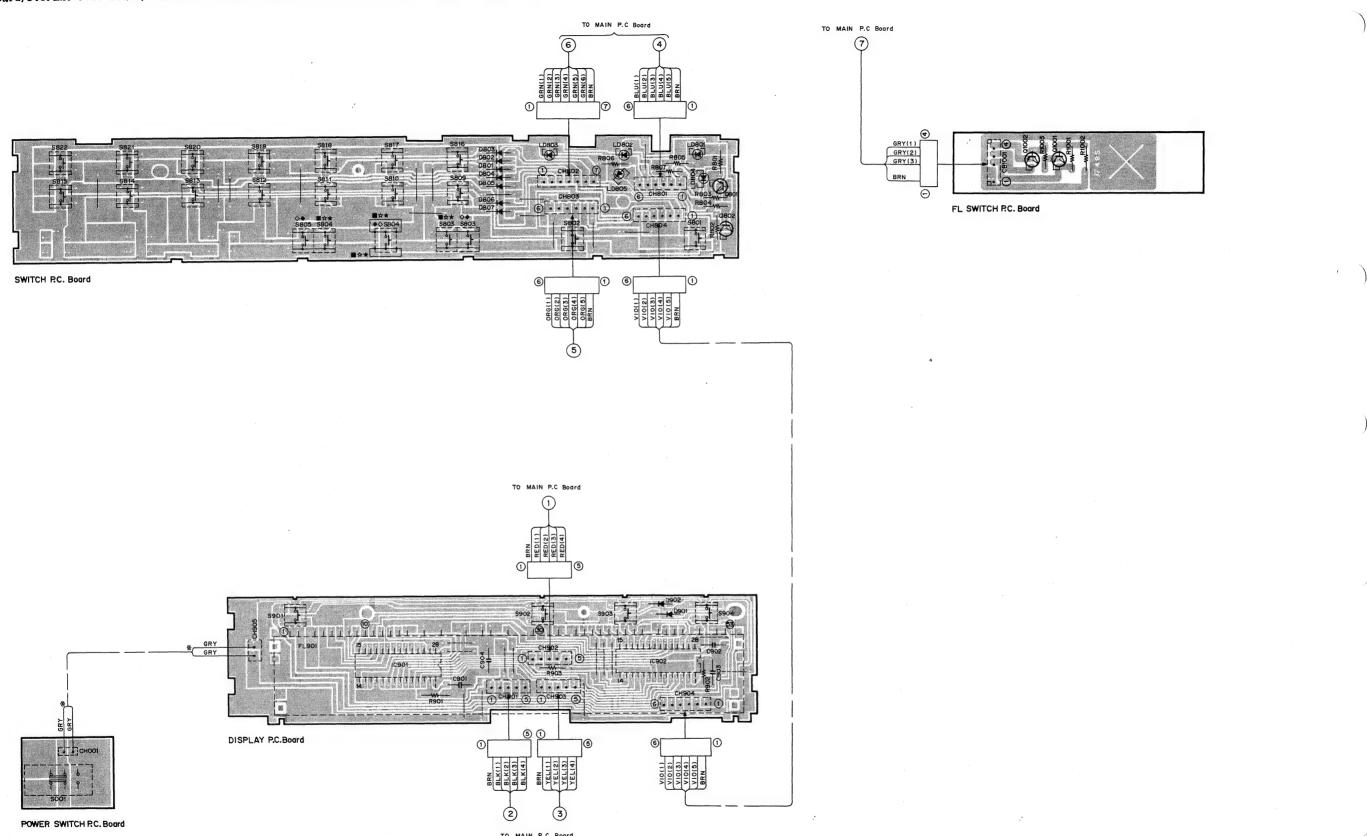


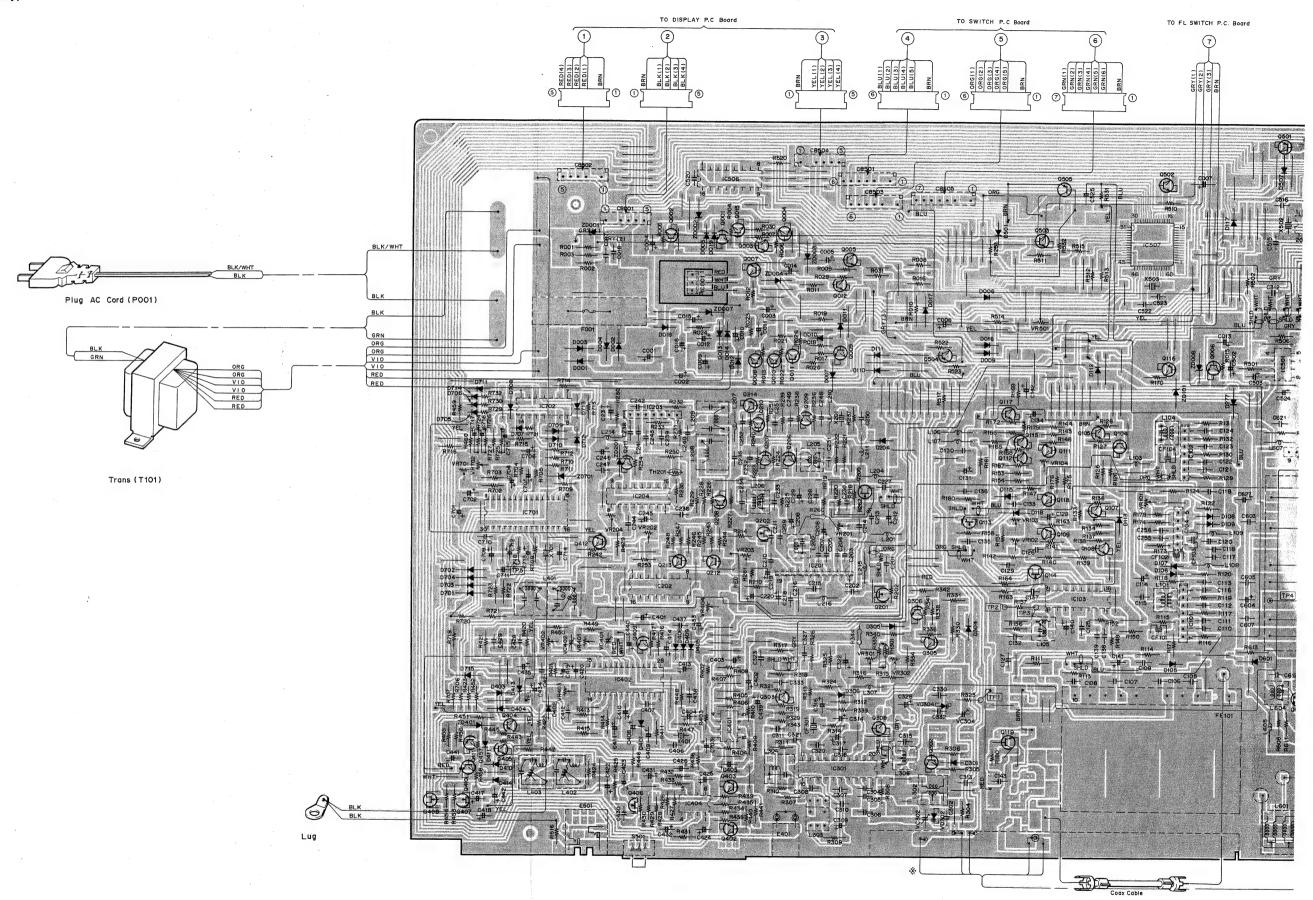
## Parts Lagout on P.C. Boards and Wiring Diagram

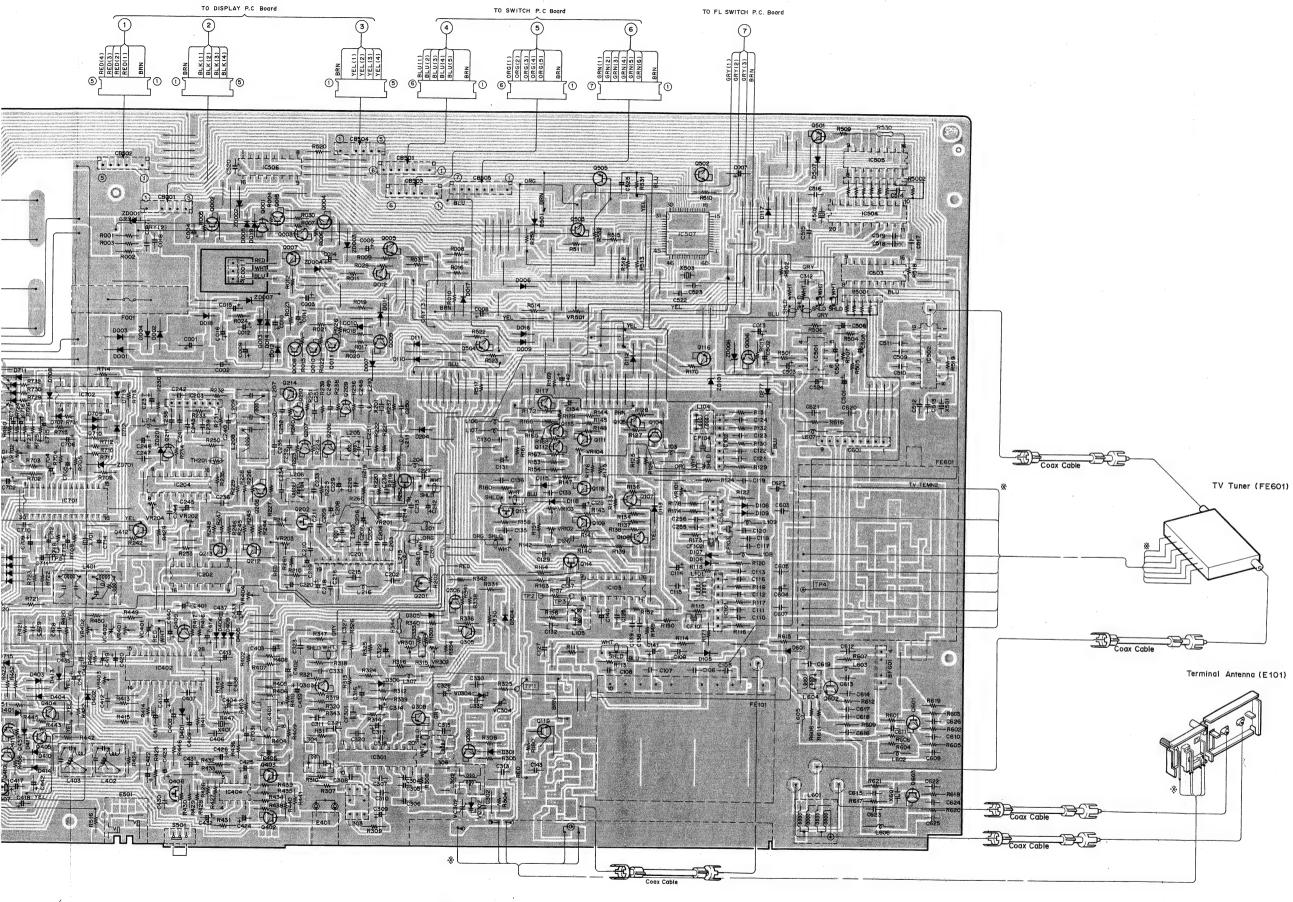
SWITCH P.C. Board/DISPLAY P.C. Board/POWER SWITCH P.C.Board /FL SWITCH P.C.Board (JA Model only)

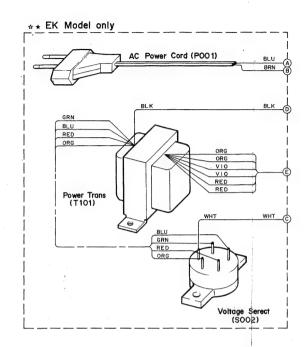


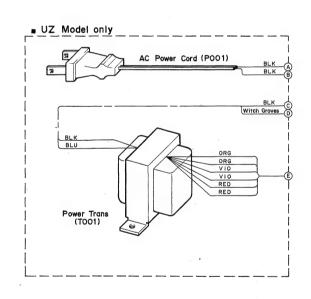
SWITCH P.C. Board/DISPLAY P.C. Board/POWER SWITCH P.C.Board /FL SWITCH P.C.Board (EK/SD/UZ Model only)

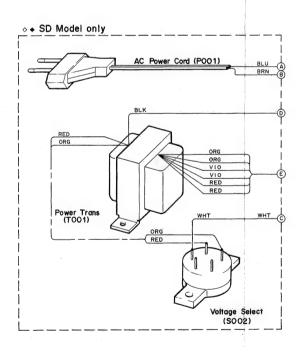


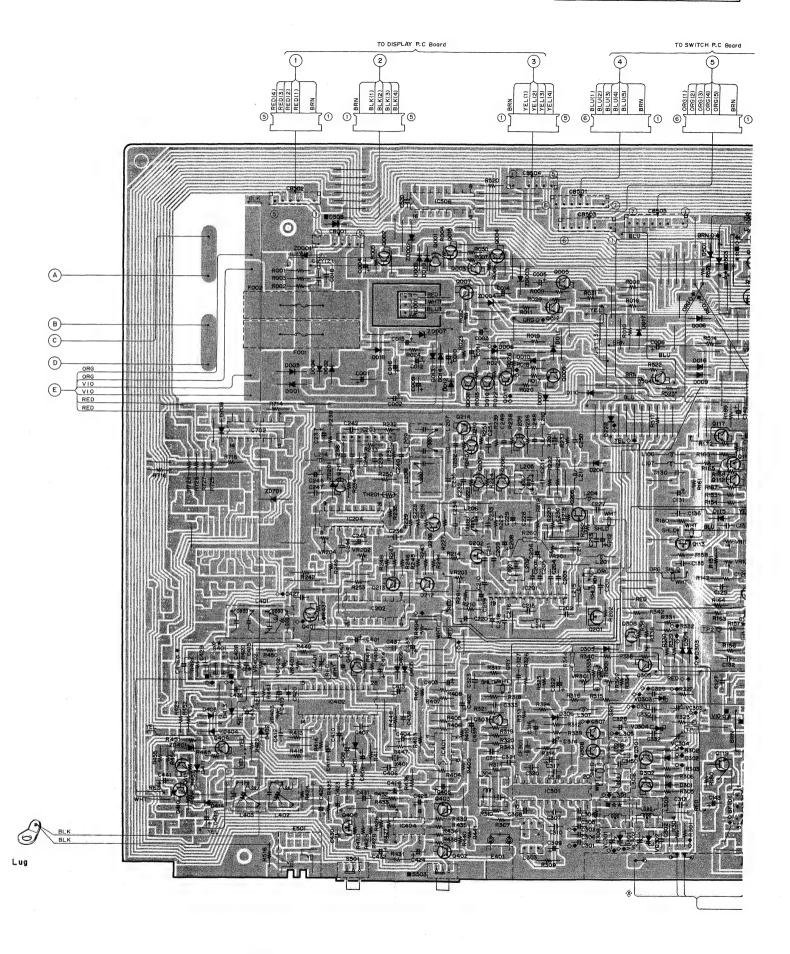


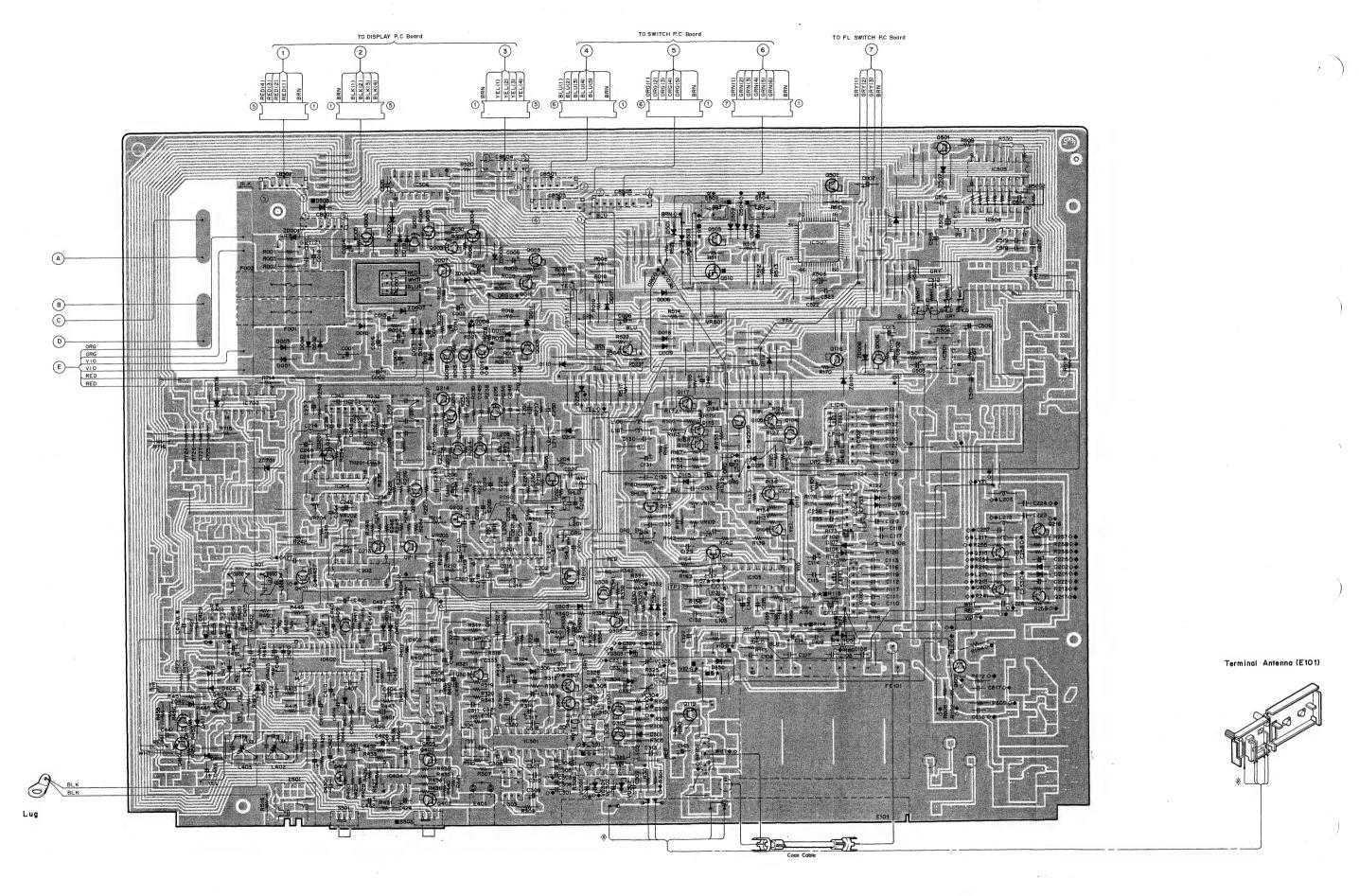












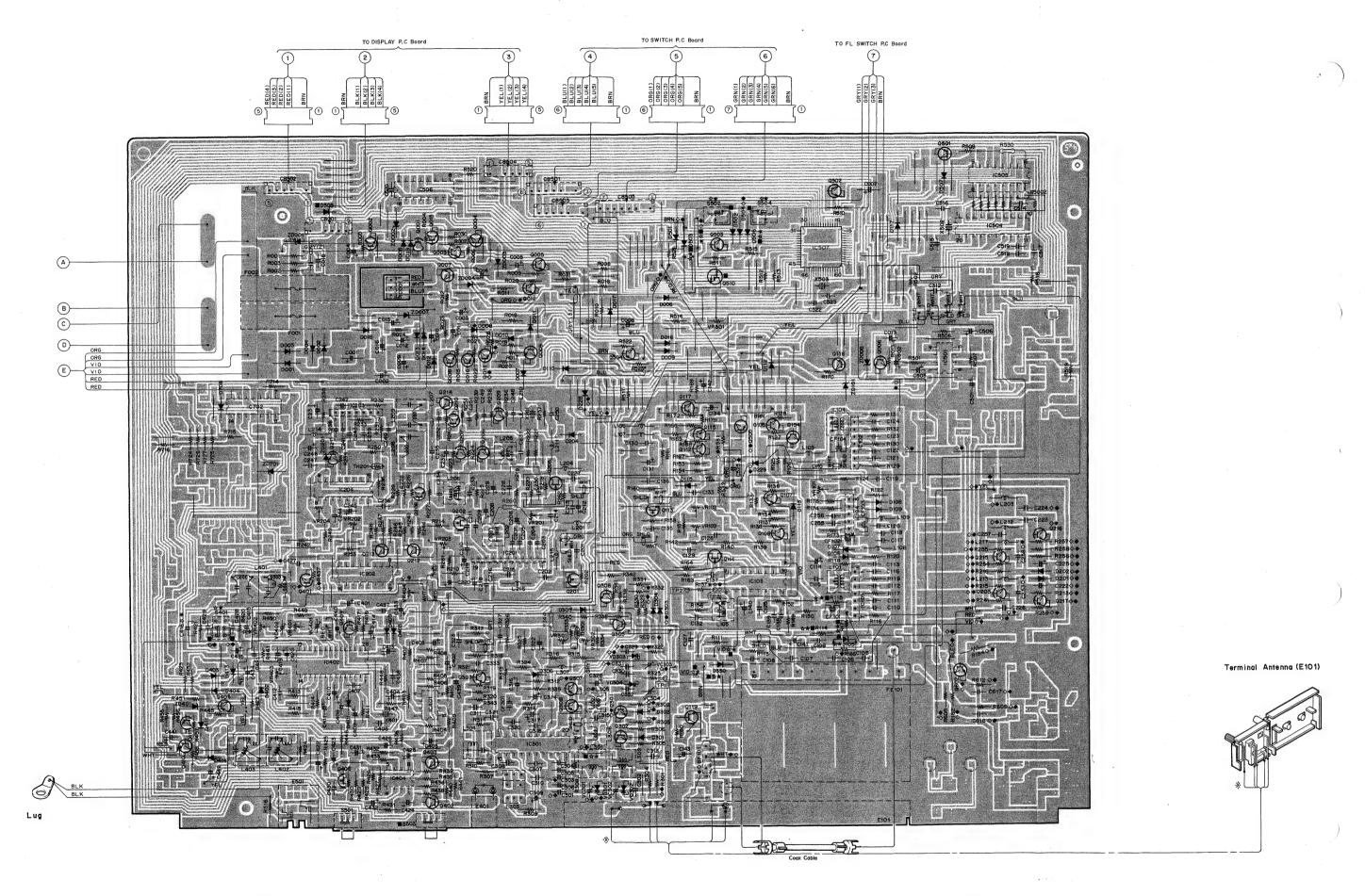
- 44 -

- 43 -

ige Serect (SOO2)

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ige Select SOO2)



\_ 44 \_

ige Select SOO2)

## **Electrical Parts List**

Resistor: Carbon resistors undor 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

##F-microfarads, pF-picofarads

							=microfarads.	pr-picofarads	
			Abbreviations		Sy	mbol No.	Part No.	Description	
		RESResistor	PPPolypropylene	l h		Q004	48T81103F01	2SC1740	
		CERCeramic	MYLMylar	11		or	48T81101F01	2SC1815	
		CAPCapcitor	·			Q005	48T81103F01	2SC1740	
		TRTransist				or	48T81101F01	2SC1815	
		InIIansist	10L1:-101351101			Q006	48T82761F01	2SC4032AB	
0,	mbo1			<del></del>		4000	10102102101		
J)	No.	Part No.	Description.	1   11		Q007	48T81103F01	2SC1740	1 1
_	NO.					or	48T81101F01	2SC1815	
		)	lain P.C. Board			Q008	48T82910F01	2SA1555AB	
10	C's					Q009	48T81103F01	2SC1740	
Ť	1C001	51T56583F07	L78N12			or	48T81101F01	2SC1815	1 1
١	1C101	51T84601F01	μPC1183H						
ļ	1C101	51T84601F01	μ PC1163H			Q010	48T82910F01	2SA1555AB	
1			LA1231N		•	Q011	48T82910F01	2SA1555AB	1 1
	1C103	51T50855F01		1   1	•	Q011	48T82910F01	2SA1555AB	
	IC104	51T72216F01	BA401		<b>♦</b>	Q011	48T82910F01	2SA1555AB	
ĺ	1000	F470 4000000	0010111	1		Q012	48T82761F01	2SC4032AB	
	1C201	51T84606F01	μ PC1211V			A012	40102/01FVI	200100200	
	1C202	51T69181F01	BU4053B			0015	10001100001	0001740	
	1C203	51T62863F01	BA402			Q015	48T81103F01	2801740	
	1C204	51T56534F01	M74LS123P			or	48T81101F01	2SC1815	
	1C301	51T53323F01	LA1245			Q104	48T81103F01	2SC1740	
						Q105	48T81103F01	2SC1740	
	1C401	51T80136F01	M5238P			Q107	48T81103F01	2SC1740	1 1
	1C402	51T84610F01	LA3450						
	IC404	51T80136F01	M5238P			Q108	48T81103F01	2SC1740	
	IC501	51T65380F01	BA4558		•	Q109	48T81103F01	2SC1740	
	1C502	51T84659F01	TD6352P		•	or	48T81101F01	2SC1815	1 1
					•	Q111	48T82761F01	2SC4032AB	1 1
•	10503	51T84657F01	TC9174P			Q112	48T81103F01	2SC1740	
	1C504	51T84660F01	LM7000			or	48T81101F01	2SC1815	
	1C505	51T84658F01	TC9173P		1				
	1C506	51T69181F01	BU4053B			Q113	48T66948F01	FET: 2SK246	
	1C507	51T92086F01	TC9306F			Q114	48T66948F01	FET, 2SK248	
	10007	31132000101	1030001			Q115	48T81103F01	2SC1740	1
_	10001	E 1 TO 450 4 PO1	LA7905			or	48T81101F01	2SC1815	
•	1C601	51T84594F01				Q116	48T81102F01	2SA1015	
•	IC701	51T84611F01	LA3801			or	48T81104F01	2SA933A	
	1C702	51T68998F01	BU4069UB			OI.	40101104101	LONDOON	
						Q117	48T81103F01	2SC1740	1 1
						OF	48T81101F01	2SC1815	
					•	Q118	48T81103F01	2SC1740	
_			<u> </u>				48T81101F01	2SC1815	1
	ransist		Lacron		•	or		•	.
•	Q001	48T90204F03	2SD1563			Q119	48T81101F01	2SC1815	
	Q001	48T63085F01	2SD1225M			0004	4070004070	DET 90V940	
*	Q001	48T63085F01	2SD1225M			Q201	48T66948F01	FET, 2SK246	
٠	Q001	48T63085F01	2SD1225M			Q202	48T66948F01	FET. 2SK246	
<b>&gt;</b>	Q001	48T63085F01	2SD1225M		◊	Q203	48T81103F01	2SC1740	
					<b>\Q</b>	or	48T81101F01	2SC1815	
å	Q001	48T63085F01	2SD1225M		•	Q203	48T81103F01	2SC1740	
	Q002	48T81103F01	2SC1740		•	or	48T81101F01	2SC1815	
	or	48T81101F01	2SC1815						
	Q003	48T81103F01	2SC1740		1	Q205	48T63926F03	2SK241	
	or	48T81101F01	2SC1815			Q206	48S40732P02	2SC1674	
	-					Q207	48S40732P02	2SC1674	
						Q208	48S40732P02	2SC1674	
					1	Q209	48S44580J03	2SC1675	

Note: ●: For Japanese model only (JA)

: For North American model only (UZ)

★: For General Foreign model only (EK)

◆: For West Germany model only (T-117L SD)

☆: For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

	mbol No.	Part No.	Description	S	ymbol No.	Part No.	Description		
_	Q210	48T81103F01	2SC1740		Q403	48T57305F01	2SD1302		Г
- 1	or	48T81101F01	2SC1815		Q404	48T81102F01	2SA1015		
- 1		48T81103F01	2SC1740		or	48T81104F01	2SA933A		
-	Q211						2SC1740		l
	or	48T81101F01	2SC1815		Q405	48T81103F01			
	Q212	48T81103F01	2SC1740		or	48T81101F01	2SC1815		1
	or	48T81101F01	2SC1815						
					Q406	48T66948F01	FET, 2SK246		ı
- [	Q213	48T81103F01	2SC1740		Q407	48T52122F02	FET. 2SK301		ı
	or	48T81101F01	2SC1815		Q408	48T52122F02	FET. 2SK301		ŀ
- 1	Q214	48T81103F01	2SC1740	1 11	Q409	48T57305F01	2SD1302		
- 1	or	48T81101F01	2SC1815		Q410	48T81103F01	2SC1740		l
- 1		48T81103F01	2SC1740		or	48T81101F01	2SC1815		ı
	Q215				01	40101101101	2001010		l
0	or	48T81101F01	2SC1815			40701100001	0041015		l
					Q411	48T81102F01	2SA1015		
•	Q215	48T81103F01	2SC1740		or	48T81104F01	2SA933A		
•	or	48T81101F01	2SC1815	•	Q412	48T81103F01	2SC1740		İ
	Q216	48T81103F01	2SC1740	•	or	48T81101F01	2SC1815		
•	or	48T81101F01	2SC1815		Q501	48T81102F01	2SA1015		
					or	48T81104F01	2SA933A		
0	Q216	48T81103F01	2SC1740						
$\diamond$		48T81101F01	2SC1815		Q502	48T81103F01	2SC1740		
	or	1		1 11	or	48T81101F01	2SC1815		ı
•	Q217	48T81102F01	2SA1015				2SA1015		
•	or	48T81104F01	2SA933A		Q503	48T81102F01			
$\diamond$	Q217	48T81102F01	2SA1015		or	48T81104F01	2SA933A		
$\Diamond$	or	48T81104F01	2SA933A		Q504	48T81102F01	2SA1015		
- 1					or	48T81104F01	2SA933A		
•	Q301	48T81103F01	2SC1740					į	
•	or	48T81101F01	2SC1815		Q505	48T81102F01	2SA1015		
0	Q301	48T81103F01	2SC1740		Q505	48T81102F01	2SA1015		Ì
ŏ	or	48T81101F01	2SC1815	•	Q505	48T81102F01	2SA1015		ı
$^{\vee}$			2SC1740		Q510	48T62964F03	DTA124E		
	Q302	48T81103F01			Q601	48S40732P02	2SC1674		
	or	48T81101F01	2SC1815 *		GOOT	40340732702	2001014		
									1
	Q303	48S40732P02	2SC1874	•	Q602	48S40732P02	2SC1674		
	Q305	48T81103F01	2SC1740	•	Q602	48S40732P02	2SC1674		ı
	or	48T81101F01	2SC1815		Q602	48S40732P02	2SC1674		
	Q308	48T81103F01	2SC1740		Q603	48S44580J03	2SC1675		
	OF	48T81101F01	2SC1815						
•	Q307	48T81102F01	2SA1015						
*			2SA933A			1			
<u>*</u>	00	48T81104F01		[ ] <del>[</del> ,	liodon	1			_
<b>\rightarrow</b>	Q307	48T81102F01	2SA1015	- 1	Doodes	400404773104	13/4002		Т
$\Diamond$	or	48T81104F01	2SA933A		D001	48S40477U01	1N4003		
	Q308	48T81102F01	2SA1015		D002	48S40477U01	1N4003		1
	or	48T81104F01	2SA933A		D003	48S40477U01	1N4003		
					D004	48S40477U01	1N4003		
•	Q401	48T81103F01	2SC1740		D005	48T44813F01	MA165TA		1
•	or	48T81101F01	2SC1815						
~		48T81103F01	2SC1740		D006	48T44813F01	MA165TA		
$\Diamond$	Q401	1			D007	48T44813F01	MA165TA	1	
<b>\Q</b>	or	48T81101F01	2SC1815				MA165TA		
	Q402	48T57305F01	2SD1302	1	D008	48T44813F01	1	-	
					D008	48T44813F01	MA165TA		
					D009	48T44813F01	MA165TA		
						•	4		

Note: ●: For Japanese model only (JA)

: For North American model only (UZ)

<sup>★:</sup> For General Foreign model only (EK) 

♦: For West Germany model only (T-117L SD)

\$\phi: For General Foreign model only (T-03 EK) 

♦: For West Germany model only (T-03L SD) Others: Common

	mbol No.	Part No.	Description		No.	Part No.	Description	
_	D010	48T44813F01	MA165TA		D402	48T44813F01	MA165TA	_
١	D011	48T44813F01	MA165TA		D403	48T44813F01	MA165TA	
- 1	D012	48T44813F01	MA165TA		D404	48T44813F01	MA165TA	
- 1	D013	48T44813F01	MA165TA		D405	48T44813F01	MA165TA	
- 1	D014	48T44813F01	MA165TA		D406	48T44813F01	MA165TA	
- [	D014	40144010101	MIOGIN		10400	40144013101	MAIOSIA	
- 1	D010	40T44010D01	WALCETA		Dino	40744010701	W 105Th	
- 1	D018	48T44813F01	MA165TA		D409	48T44813F01	MA165TA	
- 1	D017	48T44813F01	MA165TA		D410	48T44813F01	MA165TA	
- 1	D018	48T44813F01	MA165TA		D411	48T44813F01	MA165TA	
- 1	D019	48T44813F01	MA165TA		D413	48T44813F01	MA165TA	-
•	D105	48T44813F01	MA165TA		D414	48T44813F01	MA165TA	
	D105	48T44813F01	MA165TA	1 11	D501	48T44813F01	MA165TA	
- 1	D105	48T44813F01	MA165TA					
					D502	48T44813F01	MA165TA	- 1
- 1	D105	48T44813F01	MA165TA	*	D502	48T44813F01	MA165TA	
	D106	48T44813F01	MA165TA	•	D502	48T44813F01	MA165TA	1
	D107	48T44813F01	MA165TA		D502	48T44813F01	MA165TA	
	D108	48T44813F01	MA185TA	☆	D502	48T44813F01	MA165TA	
	D109	48T44813F01	MA165TA		D503	48T44813F01	MA165TA	
-	D110	48T44813F01	MA165TA	*	D503	48T44813F01	MA165TA	
_ 1				1 1 1			1	
•	D111	48T44813F01 48T44813F01	MA165TA MA165TA	☆	D503	48T44813F01	MA165TA	1
	D112	48144015101	MAIOSIA	•	D504	48T44813F01	MA165TA	
	D113	48T44813F01	MA165TA		D504	48T44813F01	MA165TA	
- [	D115	48T44813F01	MA165TA		D505	48T44813F01	MA165TA	
-	D117	48T44813F01	MA165TA		D508	48T44813F01	MA165TA	
•	D118	48T44813F01	MA165TA	<b>★</b>	D506	48T44813F01	MA165TA	
•	D201	48T44813F01	MA165TA		D506	48T44813F01	MA165TA	
<b>♦</b>	D201	48T44813F01	MA165TA		D507	48T44813F01	MA165TA	
•	D202	48T44813F01	MA165TA		D801	48T44813F01	MA165TA	
<>	D202	48T44813F01	MA165TA		D701	48T44813F01	MA165TA	1
1	D204	48T44813F01	MA165TA		D702	48T44813F01	MA165TA	
•	D227	48T44813F01	MA165TA	•	D703	48T44813F01	MA165TA	
	2000	40744010701	WALCETA		D704	40744010701	W410F74	
•	D228	48T44813F01	MA165TA		D704	48T44813F01	MA165TA	-
<b>\</b>	D228	48T44813F01	MA165TA		D705	48T44813F02	MA165	1
•	D229	48T44813F02	MA165	•	D706	48T44813F02	MA165	1
$\diamond$	D229	48T44813F02	MA165		D707	48T44813F02	MA165	J
	D301	48T44813F01	MA165TA		D708	48T44813F01	MA165TA	
•	D302	48T44813F01	MA165TA		D709	48T44813F01	MA165TA	
. 1		48144813F01	MA165TA		)			
$\diamond$	D302		1		D710	48T44813F01	MA165TA	
<u>~  </u>	D303	48T44813F01	MA165TA		D711	48T44813F01	MA165TA	
٥	D303	48T44813F01	MA165TA		D712	48T44813F01	MA165TA	
	D304	48T44813F01	MA165TA		D713	48T44813F01	MA185TA	
	D305	48T44813F01	MA165TA		D714	48T44813F02	MA165	
j	D306	48T44813F01	MA165TA		D715	48T44813F01	MA165TA	
<u>.</u>	D350	48T44813F02	MA185		ZD001	48T52739F38	Zener HZ6B-2	
			MA165					
*	D350	48T44813F02			ZD002	48T52739F38	Zener HZ6B-2	1
Ì	D401	48T44813F01	MA165TA		ZD003	48T52739F43	Zener HZ7A-1	
		I.	1			1		- 1

Note: ●: For Japanese model only (JA)

: For North American model only (UZ)

★: For General Foreign model only (EK)

◆: For West Germany model only (T-117L SD)

☆: For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

	mbol No.	Part No.	Description		No.	Part No.	Description	
	ZD004	48T52739F65	Zener HZ11B-2			Ceramic Locks	I	
1	ZD007	48T52739F97	Zener HZ30-1		X201	48T84608F02	NDK 32.9075MHZ	TT
- 1	ZD008	48T52739F95	Zener HZ27-2		X501	48T84664F01	3.2M NDK	
- 1		48T52739F11	Zener HZ3B-2		X502	48T84663F01	7.2M NDK	
- 1	ZD101				X503	48T84663F01	7.2M NDK	
	ZD201	48T52739F40	Zener HZ6C-1		}			
- 1				•	X601	48T84595F01	NDK 64.95MHZ	
	ZD401	48T52739F53	Zener HZ9A-2					
	ZD701	48T52739F40	Zener HZ6C-1		X401	91T68469F03	Ceramic Lock 456F11	
	ZD701	48T52739F35	Zener HZ6A-2	•	X701	91T84612F01	Ceramic Lock CSB472F2	
k	ZD701	48T52739F35	Zener HZ8A-2					
•	ZD701	48T52739F35	Zener HZ6A-2					
<u>م</u>	ZD701	48T52739F35	Zener HZ6A-2					
٥	ZD701	48T52739F35	Zener HZ6A-2		Capacito	rs		
•	VD301	48T52826F01	Varactor SVC321SP-A2		C001	23S41198U66	ELY. 1000 μF/35V	
0	VD301	48T52826F01	Varactor SVC321SP-A2		C002	23S40657F14	ELY. 100 μ F/16V	
Ĭ	VD302	48T52826F01	Varactor SVC321SP-A2		C003	23S40657F14	ELY. 100 μ F/16V	
	10001				C004	23S40657F13	ELY. 47 μF/16V	
	VD303	48T52826F01	Varactor SVC321SP-A2		C005	23S40657F14	ELY. 100 μ F/16V	
<u> </u>	VD303	48T52826F01	Varactor SVC321SP-A2		0000	30010001114		
۰			Varactor SVC321SP-A2		C007	23T74513F06	ELY. 18 μF/5.5V	
	VD304	48T52826F01	varactor Sycs21Sr-A2		C008	23S40657F10	ELY. 10 μF/16V	
- 1	1				C009	23S40657F26	ELY. 47 μF/35V	
		1			C010	23S40657F26	ELY. 47 μF/35V	
			<u> </u>		C011	23S40657F32	ELY. 10 μF/50V	
S	witches					000100000000	PLV 40 0/50V	
*	S401	40T72577F01	Slide SSSS22		C012	23S40657F32	ELY. 10 μP/50V	
☆	S401	40T72577F01	Slide SSSS22		C013	23S40657F26	ELY. 47 $\mu$ F/35V	
	S501	40T84669F01	Slide SSSJ1(C)	1 11	C014	23S40657F13	ELY. 47 μF/16V	
*	S502	40T72576F01	Slide SSSS21		C015	23S40657F32	ELY. 10 μF/50V	
☆	S502	40T72576F01	Slide SSSS21		C016	23S40657F13	ELY. 47 μF/16V	
	S503	40T84669F01	Slide SSSJ1		C017	08S40805F21	CER. 0.022 μ F	
*	S504	40T72576F01	Slide SSSS21		C018	08S40805F21	CER. 0.022 μ F	
☆	S504	40T72576F01	Slide SSSS21		C105	08S40805F21	CER. 0.022 µ F	
				1 11	C106	08S40805F21	CER. 0.022 µ F	
					C107	08S40805F21	CER. 0.022 $\mu$ F	
					C108	21S40655F11	CER. 10pF	
r	ilters				C109	08S40805F21	CER. 0.022 µ F	
		91T74482F01	BPMB6A		C110	08S40805F21	CER. 0.022 µ F	
<b>*</b>	BF101	1	BPMB6A		C111	08S40805F21	CER. 0.022 µF	
$\diamond$	BF101	91T74482F01			C111	08S40805F21	CER. 0.022 $\mu$ F	
•	BF601	91T84593F01	SAF54MC70Z		0112	00040000141	OLIN. 0.022 μ Γ	
	CF101	91T84598F01	SFE10.7MXK		0110	00040005004	CED 0 000P	
	CF102	91T84599F01	SFE10.7MS3G		C113	08S40805F21	CER. 0.022 μ F	
					C114	23S40657F14	ELY. 100 μ F/16V	
	CF103	91T84599F01	SFE10.7MS3G		C115	08S40805F21	CER. 0.022 µ F	
	CF104	91T51131F02	SFE10.7 ML-A		C118	08S40805F21	CER. 0.022 μ F	
	CF301	91T60378F01	CER. BFU450C4N		C117	08S40805F21	CER. $0.022 \mu$ F	
	L401	91T84609F01	ANT. BIRDY					
	L402	91T66943F01	MPX		C118	08S40805F21	CER. 0.022 μ F	
			1		C119	08S40805F21	CER. 0.022 µ F	
	L403	91T66943F01	MPX		C120	08S40805F21	CER. 0.022 μ F	
	L403	911009401.01	m n		C121	08S40805F21	CER. 0.022 $\mu$ F	
	1				C122	08S40805F21	CER. 0.022 µ F	
	1	1						

Note: : For Japanese model only (JA)

<sup>:</sup> For North American model only (UZ)

<sup>★:</sup> For General Foreign model only (EK)

<sup>◆ :</sup> For West Germany model only (T-117L SD)

<sup>☆:</sup> For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common When replacing varactor diodes. VD301 ~VD304. always diode with the same rank.

Symbol No.	Part No.	No. Description		Symbol No.	Part No.	Description	
C123	08S40805F21	CER. 0.022 µ P			08S40805F21	CER. 0.022 µ F	+-+
C124	08S40805F21	CER. 0.022 µ F			23S40657F27	•	
C125	08S40805F21	CER. 0.022 µ F	1 1 11			ELY. 0.47 \(\mu\) P/50V	
	i .			1	23S40657F27	ELY. 0.47 μF/50V	
C126	08S40805F21	CER. 0.022 µ F		C226	21S40855F27	CER. 220pF	
C127	08S40805F21	CER. 0.022 µ F		C228	21S40655F27	CER. 220pF	1 1
C128	23S40657F10	ELY. 10 μF/16V		C227	21S40655F17	CER. 33pF	
C129	08S40805F21	CER. 0.022 µ F	1 1 11	C228	08S40805F21	CER. 0.022 µ F	1 1
C130	08S40805F21	CER. 0.022 µ F	1 1 11	C229	23S40657F14	ELY. 100 μ F/16V	
C131	23S40657F14	ELY. 100 μ F/16V		C230	08S40805F21		
C132	08S40805F21	CER. 0.022 µ F		C231	08S40805F21	CER. 0.022 μ F CER. 0.022 μ F	
C133	08S4O805F21	CER. 0.022 µ F	1 11	C232	08S40805F21	CER. 0.022 µ F	1 1
C134	23S40657F28	ELY. 1 \( \mu \) F/50V		C233	08S40805F21	CER. 0.022 µ F	
C135	08S40805F21	CER. 0.022 µ F		C234	21S40655F12	CER. 12pF	1 1
C136	08S40805F21	CER. 0.022 µ F		C235	21S40655F26	CER. 180pF	
C137	08S40805F21	CER. 0.022 µ F		C236	08S40805F21	CER. 0.022 μ F	
0100	00040005001	CED 0 000 ·· B		0007	0001005775	PLV 100 - P/100	
C138	08S40805F21	CER. 0.022 µ F		C237	23S40657F14	ELY. 100 μ F/16V	
C139	08S40805F21	CER. 0.022 µ F		C238	08S40805F21	CER. 0.022 μ F	1 1
C140	23S40657F27	ELY. 0.47 μF/50V		C239	08S40805F21	CER. 0.022 µ F	
C141	23S40657F14	ELY. 100 μ F/16V		C240	08S40805F21	CER. 0.022 µ F	1 1
C142	23T42478F18	ELY. 0.1 μ F/50V	1 1 11	C241	08S40805F21	CER. 0.022 µ F	
C143	23S41198U27	ELY. 47 μF/16V		C242	08S40805F21	CER. 0.022 µ F	
C201	08S40805F21	CER. 0.022 µ F		C243	08S40805F21	CER. 0.022 µ F	1 1
C202	08S40805F21	CER. 0.022 µ F		C244	08S40805F08	CER. 1200pF	
C203	08S40805F07	CER. 1000pF		C245	23S40657F10	ELY. 10 μF/16V	
C204	08S40805F21	CER. 0.022 µ F		C246	23S40657F10	ELY. 10 μP/16V	
C205	08S40805F21	CER. 0.022 µ F		C247	08S40805F21	CER. 0.022 μ F	
C206	23S40657F10	ELY. 10 μ F/16V		C248			1 1
C207	08S40805F21	CER. 0.022 \( \mu \) F		C249	21S40655F17	CER. 33pF	
1				1	08S40805F21	CER. 0.022 µ F	
C208	23S40657F10	ELY. 10 μF/16V		C250	08S40805F21	CER. 0.022 μ F	
C209	08S40805F21	CER. 0.022 μ F		C251	21S40655F17	CER. 33pF	
C210	08S40805F07	CER. 1000pF		C252	21S40655F06	CER. 5pF	
C211	08S40805F21	CER. 0.022 µ F		C253	08S40656F13	MYL. 0.01 μF	1
C212	23S40657F14	ELY. 100 \( \mu \) F/16V		,	08S40656F13		1
C213	08S40805F21	CER. 0.022 μ F		C255	08S40805F21	CER. 0.022 µ F	
C214	08S40805F21	CER. 0.022 µ F		C256	08S40805F21	CER. 0.022 \( \mu \) F	
2015	00040005001	OFF. 4 000 - P		20	2001007071		
C215	08S40805F21	CER. 0.022 μ F	•	1	08S40656F13	MYL. 0.01 μF	
C216	08S40805F21	CER. 0.022 µ F			08S40656F13	MYL. 0.01 μF	
C218	23S40657F30	ELY. 3.3 μ F/50V	•	C258	08S40656F13	MYL. 0.01 μF	
C219	23T43247F09	ELY. 10 μF/16V		C258	08S40656F13	MYL. 0.01 μF	1 1
C220	23S40657F31	ELY. 4.7 μ F/50V	•	C301	08S40805F21	CER. 0.022 μ F	
C222	23S40657F13	ELY. 47 μP/16V		C301	08S40805F21	CER. 0,022 μF	
C222	23S40657F13	ELY. 47 μF/16V		C302	08S40805F21	CER. 0.022 μ F	
C223	21S40655F27	CER. 220pF		C303	21S40655F19	CER. 47pF	
	[			,	}		
C223	21S40655F27	CER. 220pF			21S40655F19	CER. 47pF	
C224	08S40805F21	CER. 0.022 μ F		C304	08S40805F21	CER. 0.022 μ F	
1				1			

■: For North American model only (UZ)

<sup>★:</sup> For General Foreign model only (EK) ◆: For West Germany model only (T-117L SD)

<sup>☆:</sup> For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

	ibol	Part No.	Description		0.	ymbol No.	Part No.	Description	
~	lo. 2305	08S40805F21	CER. 0.022 μ F			C417	23S40657F10	ELY. 10 μF/16V	-
- 1						C418	23S40657F10	ELY. 10 μF/16V	Ì
	2308	08S40805F21	CER. 0.022 μ F			C419	23T43247F04	ELY. 0.47 μF/50V	
1	2307	08S40805F21	CER. 0.022 μ F						
10	C308	08S40805F21	CER. 0.022 μ F			C420	23S40657F27	ELY. 0.47 μF/50V	
10	C309	23S40657F10	ELY. 10 μF/18V			C421	08S40656F13	MYL. 0.01 μF	
1	C310	08S40805F21	CER. 0.022 μF			C422	23S40657F10	ELY. 10 µF/16V	
1	C311	08S40805F07	CER. 1000pF			C423	23S40857F10	ELY. 10 µF/16V	
ŀ	C312	08S40805F21	CER. 0.022 µ F			C424	23S40657F29	ELY. 2.2 μ F/50V	
	C313	08S40805F21	CER. 0.022 µ F			C425	23S40657F29	ELY. 2.2 \(\mu\) F/50V	
- 1	C314	23S40657F30	ELY. 3.3 μ F/50V			C426	23S40657F14	ELY. 100 \( \mu \) F/16V	
		00010005701	ODD 4 000 D			C497	21S40655F24	CER. 120pF	
- 1	C315	08S40805F21	CER. 0.022 µ F		•	C427		CER. 120pF	1
- 1	C316	23S40657F30	ELY. 3.3 \( \mu\) F/50V		<b>\Q</b>	C427	21S40655F24		Ì
- 1	C317	23S40657F27	ELY. 0.47 μF/50V			C428	08T52448F06	PP. 510pF	
- 1	C318	08S40805F21	CER. 0.022 μ F		-	C428	08T52448F10	PP. 750pF	
	C320	08S40805F21	CER. 0.022 µ F		*	C428	08T52448F06	PP. 510pF	
	C321	08S40805F07	CER. 1000pF		•	C428	08T52448F06	PP. 510pF	
	C322	23S40657F14	ELY. 100 µ F/18V		☆	C428	08T52448F06	PP. 510pF	
- 1	C323	08S40805F21	CER. 0.022 µ F		0	C428	08T52448F06	PP. 510pF	
	C327	08S40805F21	CER. 0.022 µ F		•	C429	08T52448F06	PP. 510pF	
- 1	C328	23S40657F10	ELY. 10 μF/16V			C429	08T52448F10	PP. 750pF	
	0000	01040055004	CER. 120pF		*	C429	08T52448F06	PP. 510pF	
	C329	21S40855F24			•	C429	08T52448F06	PP. 510pF	
	C329	21S40655F24	CER. 120pF				1	PP. 510pF	
- 1	C330	21S40655F11	CER. 10pF		4	C429	08T52448F06		
	C331	21S40855F27	CER. 220pF		<b>\$</b>	C429	08T52448F06	PP. 510pF	
<b>\</b>	C331	21S40855F27	CER. 220pF			C430	08S40656F13	MYL. 0.01 μF	
	C332	21S40655F29	CER. 330pF		1	C431	23S40657F10	ELY. 10 μF/16V	
- [	C333	08S40805F21	CER. 0.022 µ F		1	C432	23S40657F10	ELY. 10 μF/16V	
- 1	C401	23S40657F10	ELY. 10 μ F/16V		1	C433	23S40857F10	ELY. 10 μF/16V	
	C402	23S40657F10	ELY. 10 μF/16V		1	C434	23S40657F10	ELY. 10 μF/16V	
	C403	23S40857F14	ELY. 100 µ F/16V			C435	23S40657F10	ELY. 10 μF/16V	
		***************************************	DIN 10 D/101			C497	21S40655F23	CER. 100pF	
- 1	C404	23S40657F10	ELY. 10 μF/16V			C437	1	PP. 560pF	
- 1	C405	23S40657F10	ELY. 10 μF/16V			C438	08T52448F07		
Į	C406	08S40805F07	CER. 1000pF		1	C439	23S40657F10	ELY. 10 μF/16V	
	C407	08S40656F21	MYL. 0.047 μF			C440	23S40657F02	ELY. 47 μ F/6.3V	
	C408	23S40657F27	ELY. 0.47 μF/50V			C441	23S40657F10	ELY. 10 μF/16V	
	C409	23S40657F28	ELY. 1 \( \mu \) F/50V			C442	23S40657F11	ELY. 22 μF/16V	
	C410	23S40657F28	ELY. 1 \( \mu \) F/50V			C501	23S40657F26	ELY. 47 μF/35V	
	C411	23S40657F28	ELY. 1 \( \mu \) F/50V			C502	23S40657F28	ELY. 1 μ F/50V	
	C412	08S40656F13	MYL. 0.01 µF			C503	23S40657F27	ELY. 0.47 μF/50V	
	C413	23S40657F14	ELY. 100 µ F/16V		•	C504	23S40657F27	ELY. 0.47 μF/50V	
	0414	99040057014	ELY. 100 μ F/16V			C505	23S40657F28	ELY. 1 μ F/50V	
_	C414	23S40857F14	PP. 750pF		1	C506	23S40657F03	ELY. 100 μ F/6.3V	
*	C415	08T52448F10				C509	08S40805F07	CER. 1000pF	J
☆	C415	08T52448F10	PP. 750pP			C510	08S40805F07	CER. 1000pF	
*	C416	08T52448F10	PP. 750pF			C511		CER. 0.022 µ F	
☆	C416	08T52448F10	PP. 750pF			0311	08S40805F21	OER. 0.022 # F	
			adal asla (14)	Pon North 4-		n model	only (117)		
11-4	A : • :	For Japanese	odel only (JA)	■ : For North Ame → : For West Gern	erica	n model			

	mbol No.	Part No.	Description		Symbol No.	Part No.	Description	
T	C512	21S40655F17	CER. 33pF	•	C704	23S40657F27	ELY. 0.47 μF/50V	
	C513	21S40655F17	CER. 33pF		C705	23S40657F31	ELY. 4.7 μ F/50V	
- 1	C514	08S40805F21	CER. 0.022 µ F		C706	23S40657F31	ELY. 4.7 μF/50V	
- 1	C515	21S40855F17	CER. 33pF		C709	23S40657F12	ELY. 33 µF/16V	
- 1	C516	21S40655F17	CER. 33pF		C710	08T42081U12	POLY.300pF	
	C517	08S40805F21	CER. 0.022 µ F	•	C711	23S40657F31	ELY. 4.7 μF/50V	
1	C518	21S40655F22	CER. 82pF		C712	23S40657F10	ELY. 10 μF/16V	
	C519	21S40655F22	CER. 82pF	•	C713	23S40657F10	ELY. 10 μF/16V	- {
-	C520	08S40805F21	CER. 0.022 µ F		C714	23T42477F09	ELY. B.P 4.7 μ F/25V	
	C522	21S40855F19	CER. 47P	•	C715	23T43247F08	ELY. 4.7 μF/25V	
	C523	21S40655F17	CER. 33pF		C718	23T43247F05	ELY. 1 \( \mu \) F/50V	
- 1	C524	23S40657F31	ELY. 4.7 μ F/50V		C717	23T43247F05	ELY. 1 \( \mu \) F/50V	
	C525	23T41366F39	ELY. B.P 0.47 µF/50V		VC301	20T47503F02	Trimmer TZ03 (RED)	
•	C525	23T41366F39	ELY. B.P 0.47 μF/50V		VC301	20T47503F02	Trimmer TZ03 (RED)	
	C525	23T41366F39	ELY. B.P 0.47 \(\mu\)F/50V		VC302	20T47503F02	Trimmer TZ03 (RED)	
~	0020	20141000100	μαι. μ.ι υ. τι μι/ουτ		10002	20141000102	111mmet 1200 (RED)	
•	C603	08S40805F21	CER. 0.022 µ F		VC303	20T47503F02	Trimmer TZ03 (RED)	
•	C804	23S40657F10	ELY. 10 μF/16V		VC303	20T47503F02	Trimmer TZ03 (RED)	
•	C605	08S40805F21	CER. 0.022 µ F		VC304	20T47503F02	Trimmer TZ03 (RED)	1
•	C607	08S40805F21	CER. 0.022 µ F		VC401	20T47503F03	Trimmer TZ03 (YEL)	
•	C609	08S40805F21	CER. 0.022 µ F		VC402	20T47503F03	Trimmer TZ03(YEL)	
•	C610	21S40655F26	CER. 180pP					
	C611	08S40805F21	CER. 0.022 µ F					- [
		21S40655F06	CER. 5pF					
	C612						}	
	C813 C614	21S40655F26 21S40655F13	CER. 180pF CER. 15pF		Coils	L		1
	0011				L101	24T84602F01	1FT. 10.7MHA (BLK)	
•	C615	21S40655F03	CER. 2pF		L103	24T50508F14	IND. 2.2 µH	
•	C616	08S40805F21	CER. 0.022 µ F		L104	24T84602F01	IFT. 10.7MHA (BLK)	
•	C616	08S40805F21	CER. 0.022 µ F		L105	24T84605F01	DISCR.	- 1
<b>\</b>	C616	08S40805F21	CER. 0.022 µ F		L108	24T50508F14	IND. 2.2 µH	- 1
•	C617	08S40805F21	CER. 0.022 µ F					
		200100057001	GDD A AGO T		L107	24T50508F14	IND. 2.2 μH	
•	C617	08S40805F21	CER. 0.022 μ F		L108	24T50508F30	IND. 47 μH	
$\Diamond$	C617	08S40805F21	CER. 0.022 μ F		L109	24T50508F30	IND. 47 μH	- [
•	C618	08S40805F21	CER. 0.022 μ F		L201	24T50508F14	IND. 2.2 μH	
•	C619	08S40805F21	CER. 0.022 µF		L202	24T84607F01	VCO 10.7MHZ	
•	C620	08S40805F21	CER. 0.022 μ F		L203	24T50508F14	IND. 2.2 μH	
•	C621	08S40805F21	CER. 0.022 µ F		L203	24T50508F14	IND. 2.2 μH	
•	C622	21S40655F03	CER. 2pF		L204	24T50508F14	IND. 2.2 µH	
•	C623	21S40655F11	CER. 10pF		L205	24T74509F01	10.7DOUBLER (BLK)	- 1
•	C624	08S40805F21	CER. 0.022 μF		L208	24T74510F01	32.1TRIPLER	- 1
•	C625	08S40805F21	CER. 0.022 µ F					-
					L207	24T50508F11	IND. 1.2 µ H	
•	C626	08S40805F21	CER. 0.022 µ F		L208	24T74511F01	0.8MIXER	
•	C627	23S40857F14	ELY. 100 µ F/16V		L209	24T80074F01	0.8MIXER 2ND	
•	C701	23S40657F14	ELY. 100 \( \mu \) F/16V		L210	24T50508F14	IND. 2.2 µH	
- 1	C702	23S40857F31	ELY. 4.7 μ F/50V		L211	24T50508F14	IND. 2.2 µH	
		23S40657F28	ELY. 1 \( \mu \) F/50V					

Note: ●: For Japanese model only (JA)

<sup>:</sup> For North American model only (UZ)

<sup>★:</sup> For General Foreign model only (EK)

<sup>◆ :</sup> For West Germany model only (T-117L SD)

<sup>☆:</sup> For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

L   L   L   L   L   L   L   L   L   L	No	24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T50508F34 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T90785F01 24T90785F01 24T90784F01	1ND. 220 \( \mu\) H  1ND. 2.2 \( \mu\) H  1ND. 220 \( \mu\) H	, • ₩ • ₩	No. Jack E401 E401 E401 E401 E401 E401 E401	09T84616F01 09T84616F01 09T84616F01 09T84616F01 09T84616F02	Plate phone T5855
L   L   L   L   L   L   L   L   L   L	.212 .213 .213 .214 .215 .216 .217 .217 .2301 .301 .302 .303	24T50508F38 24T50508F38 24T50508F38 24T50508F14 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T90785F01	IND. 220 \( \mu\) H IND. 320 \( \mu\) H IND. 320 \( \mu\) H	● ★ ☆	E401 E401 E401 E401 E401	09T84616F01 09T84616F01 09T84616F01 09T84616F02	Plate phone T5855 Plate phone T5855 Plate phone T5855 Plate phone T5855
L   L   L   L   L   L   L   L   L   L	L213 L213 L214 L215 L216 L217 L217 L301 L301 L302 L303	24T50508F38 24T50508F38 24T50508F14 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T90785F01	IND. 220 µ H IND. 220 µ H IND. 2.2 µ H IND. 220 µ H	* +	E401 E401 E401 E401	09T84616F01 09T84616F01 09T84616F01 09T84616F02	Plate phone T5855 Plate phone T5855 Plate phone T5855 Plate phone T5855
> L L L L L L L L L L L L L L L L L L L	L213 L214 L215 L216 L217 L217 L301 L301 L302 L303	24T50508F38 24T50508F14 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T90785F01	IND. 220 \( \mu\) H  Trans. LW ANT	* • •	E401 E401 E401 E401	09T84616F01 09T84616F01 09T84616F02	Plate phone T5855 Plate phone T5855 Plate phone T5855
L   L   L   L   L   L   L   L   L   L	L214 L215 L216 L217 L217 L301 L301 L302 L303	24T50508F14 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T90785F01	IND. 2.2 μ H  IND. 220 μ H  IND. 220 μ H  IND. 220 μ H  IND. 220 μ H  Trans. LW ANT	<b>♦</b>	E401 E401 E401	09T84616F01 09T84616F02	Plate phone T5855 Plate phone T5855
L   L   L   L   L   L   L   L   L   L	L215 L216 L217 L217 L301 L301 L302 L303	24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T50508F38 24T90785F01	IND. 220 µ H Trans. LW ANT	☆	E401 E401	09T84616F02	Plate phone T5855
I	L216 L217 L217 L301 L301 L302 L303	24T50508F38 24T50508F38 24T50508F38 24T90785F01 24T90785F01	IND. 220 µH IND. 220 µH IND. 220 µH Trans. LW ANT		E401		
	L216 L217 L217 L301 L301 L302 L303	24T50508F38 24T50508F38 24T50508F38 24T90785F01 24T90785F01	IND. 220 µH IND. 220 µH IND. 220 µH Trans. LW ANT			09784618709	
	L217 L217 L301 L301 L302 L303	24T50508F38 24T50508F38 24T90785F01 24T90785F01	1ND. 220 µH 1ND. 220 µH Trans. LW ANT				Plate phone T5855
	L217 L301 L301 L302 L303	24T50508F38 24T90785F01 24T90785F01	IND. 220 µH Trans. LW ANT			09T84124F01	Head phone MINI W
	L301 L301 L302 L303	24T90785F01 24T90785F01	Trans. LW ANT		Loui	09104124701	nead phone wint w
\$   ! ! !	L301 L302 L303	24T90785F01					
1	L302 L303		Tools IV ANT	1 1	1	1	4
1	L302 L303					Stat	ion Switch P.C. Board
1	L303	24190/84001	Trans. LW ANT		Tacastat		
1		0.4707074704	Trans. MW ANT		Transist		0041015
- 1	1.304	24T67274F01	SFL450B-3 (WHT)		Q801	48T81102F01	25A1015
•		24T53327F01	AM IF (BLK)		10	48T81104F01	2SA933A
1	L305	24T57627F01	Trans. LW OSC (BLK)		Q802	48S43525F02	2SC1815
, [	1000	04757007704	Tenne IN COO (DIN)				
· 1	L305	24T57627F01	Trans. LW OSC (BLK)		Diad		
	L306	24T53326F01	Trans. AM OSC		Diodes	4054404050	144105774
- 1	L307	24T50508F14	IND. 2.2 \( \mu \) H		D801	48T44813F01	MA165TA
	L601	24T84590F01	BALUN. 75-75		D802	48T44813F01	MA165TA
	L602	24T50508F14	IND. 2.2 µ H		D803	48T44813F01	MA165TA
					D804	48T44813F01	MA165TA
•	L603	24T50508F11	IND. 1.2 μ H		D805	48T44813F01	MA165TA
•	L604	24T84596F01	IFT. 10.7MHZ (BLK)				
•	L605	24T50508F14	IND. 2.2 $\mu$ H		D806	48T44813F01	MA165TA
	L606	24T50508F08	1ND. 0.68 μH		D807	48T44813F01	MA165TA
•	L607	24T50508F14	IND. 2.2 \( \mu \) H				
Re	sistor	/Thermistors			Switches		
•	R5001	51T51133F02	Block 100K ohm x4		S801	40T84654F01	SKHHQW (DOWN
	R5002	51T51133F03	Block 10K ohm x7		S802	40T84654F01	SKHHQW (UP)
- [	VR101	18T42748F07	SOL V 1K ohm		S803	40T84654F01	SKHHQW (FM)
	VR102	18T42748F17	SOL V 47K ohm		S804	40T84654F01	SKHHQW (AM)
- 1	VR103	18T42748F17	SOL V 47K ohm		S805	40T84654F01	SKHHQW (TV)
•	VR104	18T42748F17	SOL V 47K ohm		S805	40T84654F01	SKHHQW (LW)
	VR201	18T42748F13	SOL V 10K ohm		S805	40T84654F01	SKHHQW (LW)
- 1	VR202	18T42748F13	SOL V 10K ohm	•	S806	40T84654F01	SKHHQW (MAIN)
- 1	VR203	18T42748F17	SOL V 47K ohm		S807	40T84654F01	SKHHQW (SUB)
- 1	VR204	18T42748F07	SOL V 1K ohm		S808	40T84654F01	SKHHQW (MAIN-SUB)
	VR301	18T42748F13	SOL V 10K ohm		S809	40T84654F01	SKHHQW (M7/M9)
- 1	VR302	18T42748F13	SOL V 10K ohm		S810	40T84654F01	SKHHQW (M8/M20)
- 1	VR401	18T42748F24	SOL V 680K ohm		S811	40T84654F01	SKHHQW (M9/M21)
- 1	VR402	18T42748F24	SOL V 680K ohm		S812	40T84654F01	SKHHQW (M10/M22)
- 1	VR403	18T42748F17	SOL V 47K ohm		S813	40T84654F01	SKHHQW (M11/M23)
	14400	10110110111	502 1 318 01M		5010	10101004101	- WAL / 1200 /
	VDAGA	18T42748F19	SOL VR 100K ohm		S814	40T84654F01	SKHHQW (M12/M24)
- 1	VR404						
- 1	VR501	18C42061J16	VARIABLE 100K ohm		S815	40T84654F01	SKHHQW (M1~M12/M13 ~M24)
. 1	VR701	18T42748F11	VOL. 4.7K-B		S816	40T84654F01	SKHHQW (M1/M13)
- 1	VR702	18T42748F15	SOL V 22K ohm		S817	40T84654F01	SKHHQW (M2/M14)
	TH201	48T57369F13	Thermistor 2.5K ohm		S818	40T84654F01	SKHHQW (M3/M15)
	TH301	48T57369F13	Thermistor 2.5K ohm				

<sup>■:</sup> For North American model only (UZ)

<sup>★:</sup> For General Foreign model only (EK) 

♦: For West Germany model only (T-117L SD)

A: For General Foreign model only (T-03 EK) 

♦: For West Germany model only (T-03L SD) Others: Common

S	ymbol No.	Part No.	Description		Symbol No.	Part No.	Description
	S819	40T84654F01	SKHHQW (M4/M16)		1101	-L	Miscellaneous
	S820	40T84654F01	SKHHQW (M5/M17)				MISCETTANEOUS
	S821	40T84654F01	SKHHQW (M6/M18)	•	E101	09T84167F01	Terminal. Antenna
	S822	40T84654F01	SKHHQW (MEMORY)		E101	09T84167F02	Terminal. Antenna Mult
				<b>★</b>	E101	09T84187F02	Terminal, Antenna Mult
				•	E101	09T84167F02	Terminal, Antenna Mult
				☆	E101	09T84167F02	Terminal. Antenna Mult
		FI.	/Display P.C. Board				
			2107143 20414	<b>□</b>   ◊	E101	09T84167F02	Terminal. Antenna Mult
1	C's			•	F001	65T55050F08	Fuse, MF60NR 1A-125V
	1C901	51T84655F01	TC9190N		F001	65T52486F03	Fuse, MF61NM 1A-125V
	1C902	51T84655F01	TC9190N	*	F001	65T42077U13	Fuse. Semko T-500mA
				•	F001	65T42077U13	Fuse. Semko T-500mA
				☆	F001	65T42077U13	Fuse. Semko T-500mA
D	lodes				F001	65T42077U13	Fuse, Semko T-500mA
	D901	48T44813F01	MA165TA		F002	65T52486F01	Fuse, MF61NM 0.5A-125V
	D902	48T44813F01	MA165TA	*	F002	65T42077U10	Fuse, Semko T-250mA
	-			•	F002	65T42077U10	Fuse, Semko T-250mA
			V	☆	F002	65T42077U10	Fuse, Semko T-250mA
S	witches				F002	65T42077U10	Fuse. Semko T-250mA
_	S901	40T84654F01	SKHHQW (REC. CAL)		FL901	65T84168F01	Meter, FL 10-BT-15GK
	S902	40T84654F01	SKHHQW (PROG)		LD801	48T66616F02	LED, SLR-54VR3 (RED)
	S903	40T84654F01	SKHHQW (IF BAND)		LD802	48T66616F02	LED. SLR-54VR3 (RED)
	S904	40T84654F01	SKHHQW (AUTO SEEK)				
				1 11	LD803	48T66616F02	LED. SLR-54VR3 (RED)
					LD804	48T66616F02	LED. SLR-54VR3 (RED)
					LD805	48T66616F02	LED. SLR-54VR3 (RED)
C	apacito	rs		•	P001	28T66771F01	AC Power Cord
•	C901	08T65480F53	CER. 2200P		P001	28T40916U01	AC Power Cord
•	C901	08T65480F52	CER. 1800P				
	C901	08T65480F53	CER. 2200P	*	P001	28T43812P03	AC Power Cord
*	C901	08T65480F53	CER. 2200P		P001	28T43812P04	AC Power Cord
å	C901	08T65480F53	CER. 2200P	☆	P001	28T43812P03	AC Power Cord
					P001	28T43812P04	AC Power Cord
$\Diamond$	C901	08T65480F52	CER. 1800P		S001	40T84672F01	Switch. Push SPUL12 (Power)
	C902	08T65480F62	CER. 0.022 µ F				
•	C903	08T65480F53	CER. 2200pF	<b> </b>	S002	40T80258F03	Switch. Volt Select 2C
•	C903	08S65480F55	CER. 3300P	•	S002	40T80258F03	Switch. Volt Select 2C
	C903	08T65480F53	CER. 2200P	☆	S002	40T80258F01	Switch, Volt Select 4C
				0	S002	40T80258F03	Switch, Volt Select 2C
*	C903	08T65480F53	CER. 2200P		T101	25T84662F01	Power Trans
☆	C903	08T6548DF53	CER. 2200P				
<b>\Q</b>	C903	08S65480F55	CER. 3300P		T101	25T84662F04	Power Trans
	C904	08T65480F62	CER. 0.022 μ F	<del> </del>	T101	25T84662F03	Power Trans
•	C910	21C45322G25	CER. 220P	•	T101	25T84662F02	Power Trans
				☆	T101	25T84662F03	Power Trans
				<b>↓</b>	T101	25T84662F02	Power Trans
		FL	Switch P.C. Board				
T	ransisto	· · · · · · · · · · · · · · · · · · ·					
	Q1001	48T81102F01	2SA1015				
	Q1002	48T57337F03	2SD1330	1 11			
	I				1		

<sup>- 53 -</sup>

☆: For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

◆ : For West Germany model only (T-117L SD)

★: For General Foreign model only (EK)

## **Cabinet Assembly Parts List**

Note: The parts without part numbers are not supplied.

Sym	1001	IN-	Part No.	Description		Sy	mbol	IN-	Part No.	Description	
N	lo.	dex			 		No.	dex			_
	1	1-D	15D81388F01	Cover. Top			27	4-C	09T58943F09	Holder, Wire 2P	
•	1	1-D	15D81388F01	Cover. Top			28	4-B	07A83876F01	Support, FL	
۲	1	1-D	15D81388F01	Cover, Top		•	31	5-A	64D83791F01	Panel, Front	
	1	1-D	15D81388F01	Cover, Top			31	5-A	64D83791F02	Panel, Front	
۲	1	1-D	15D81388F02	Cover. Top		*	31	5-A	84D83791F02	Panel. Front	
	1	1-D	15D81388F02	Cover. Top		•	31	5-A	64D83791F03	Panel. Front	
1	2		75S72374F66	Cushion, Rubber		4	31	5-A	64D83791F05	Panel. Front	
١	3		03S40036U01	Screw. W/washer (M4x8)		<b>\Q</b>	31	5-A	64D83791F04	Panel. Front	
- 1	4		03A82468F01	Screw, Bind (M3x10)			32	2-F	77T84591F01	TV. Tuner TEMN2. (FE601)	
	7		03C42723U01	Screw. Cup (M3x6)		•	33	2-F	77T84597F01	FM. Tuner TFFG3J115 (FE101)	
	8		01A80230F01	Assembly, Trannleg							
	8		01A80230F01	Assembly, Trannleg			33	2-F	77T84597F03	FM. Tuner TFFG3U114A	
	8		01A80230F01	Assembly, Trannleg						(FE101)	
t	8		75T57059F01	PAD Trannleg		*	33	2-F	77T84597F03	FM. Tuner TFFG3U114A	
>	8		75T57059F01	PAD Trannleg						(FE101)	
	8		75T57059F01	PAD Trannleg		+	33	2-F	77T84597F02	FM. Tuner TFFG3E127A (FE101)	
4	9		75A67064F01	Felt		☆	33	2-F	77T84597F03	FM. Tuner TFFC3U114A	
	9		75A67064F01	Felt		1 "	00	4 P	11104091100	(FE101)	
	_			Felt		<b>\Q</b>	33	2-F	77T84597F02	FM. Tuner TFFG3E127A	
	9 10		75A67064F01 03S44205G20	Screw, Pan (M4x12)		`	33	2-r	11104031102	(FE101)	
_											
•	11	5-G	15C83802F01	Cover. Rear		•	34	2-E	09T51960F01	Holder, Fuse	
	11	5-G	15C83802F05	Cover, Rear	- 1	-	34	2-E	09T51960F01	Holder, Fuse	
*	11	5-G	15C83802F02	Cover. Rear		*	34	2-E	09T51410F01	Holder, Fuse (Semko)	
٠	11	5-G	15C83802F03	Cover, Rear		•	34	2-E	09T51410F01	Holder, Fuse (Semko)	
忿	11	5-G	15C83802F07	Cover, Rear		☆	34	2-E	09T51410F01	Holder, Fuse (Semko)	
٥	11	5-G	15C83802F06	Cover, Rear		<b>\$</b>	34	2-E	09T51410F01	Holder, Fuse (Semko)	
	12		03S71031F04	Screw, Bind (M3x8)		1	35	4-H	55T84676F01	Lock, Antenna Holder	
1	15		03C42723U02	Screw. Cup (M3x8)		•	36	3-G	01T84592F02	Assembly, Coax Cable RCA	
	16		03S71031F02	Screw, Bind (M2.6x8)		•	37	2-F	01T84592F01	Assembly, Coax Cable	
	17		04A53398F01	Washer, Nylon (M2.6)			38	3-F	01T84592F03	Assembly, Coax Cable B.IN	
•	18	5-C	01C84828F01	Assembly. Frame Front			40	4-E	43T93516F01	Spacer P.C. Board	
	18	5-C	01C90593F01	Assembly, Frame Front		*	41	1-D	03D40014G49	Screw, W/washer (M3x8)	
*	18	5-C	01C90593F01	Assembly, Frame Front		+	41	1-D	03D40014G49	Screw. W/washer (M3x8)	
٠	18	5-C	01C90791F01	Assembly, Frame Front		☆	41	1-D	03D40014G49	Screw. W/washer (M3x8)	
7	18	5-C	01C92804F01	Assembly. Frame Front		<b>\$</b>	41	1-D	03D40014G49	Screw. W/washer (M3x8)	
>	18	5-C	01C92203F01	Assembly, Frame Front		*	42	2-C	47C64899F44	Shaft	
•	21	3-A	36B70885F07	Knob. Power		•	42	2-C	47C64899F44	Shaft	
	21	3-A	36B70885F07	Knob. Power		*	42	2-C	47C64899F44	Shaft	
*	21	3-A	36B70885F07	Knob, Power		<b>\Q</b>	42	2-C	47C64899F44	Shaft	
•	21	3-A	36B70885F07	Knob. Power		•	44		14S56709F01	Insulator, Transistor	
<u>ئ</u>	21	3-A	36B70885F08	Knob. Power							
<b>&gt;</b>	21	3-A	36B70885F08	Knob, Power							
*	22	"	03S44205G40	Screw. Bind (M3x4)							
	23	4-G	43B41825J02	Support Cord							
	24	3-D	29A41814G01	Lug							

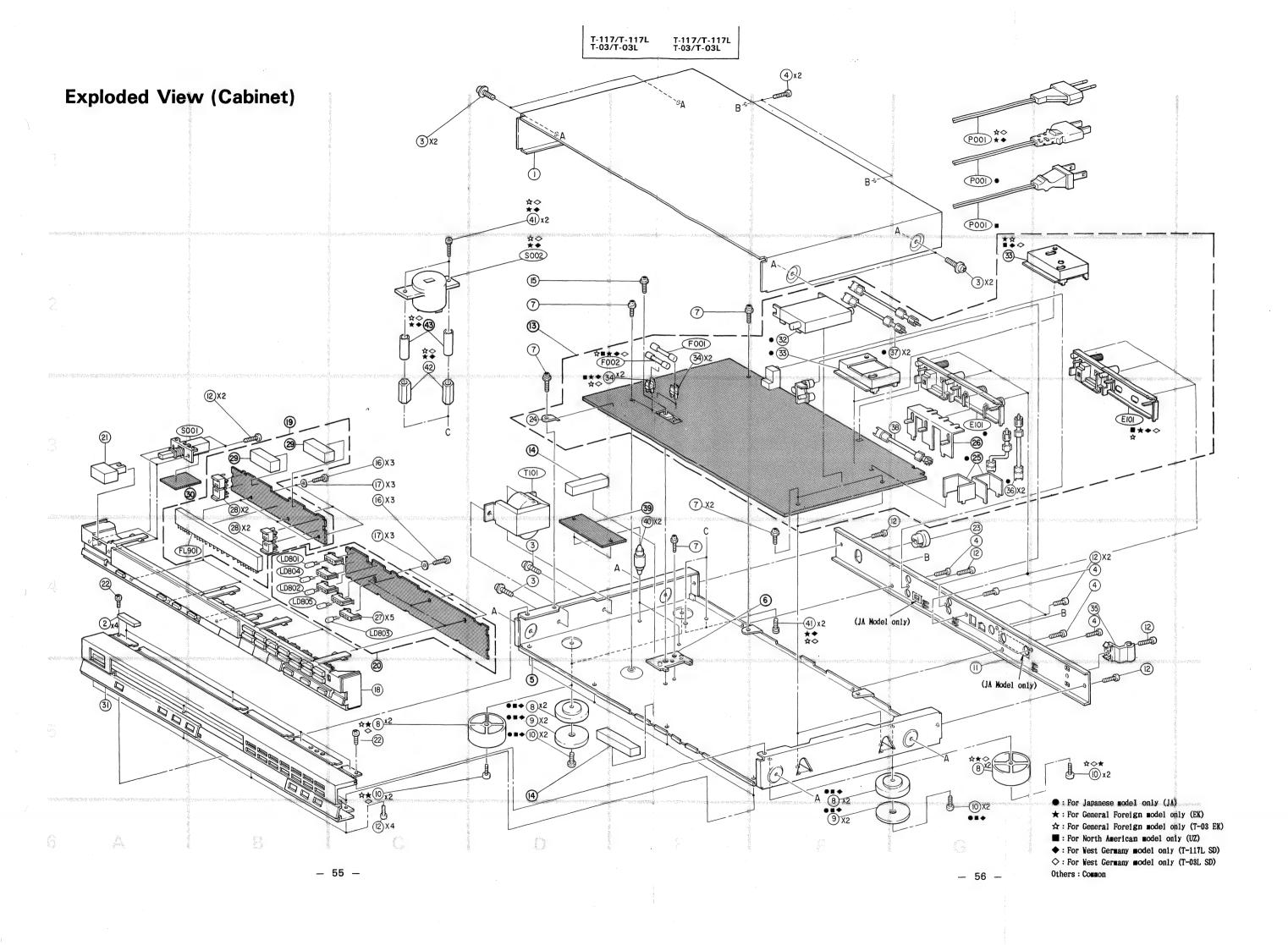
Note: ●: For Japanese model only (JA)

: For North American model only (UZ)

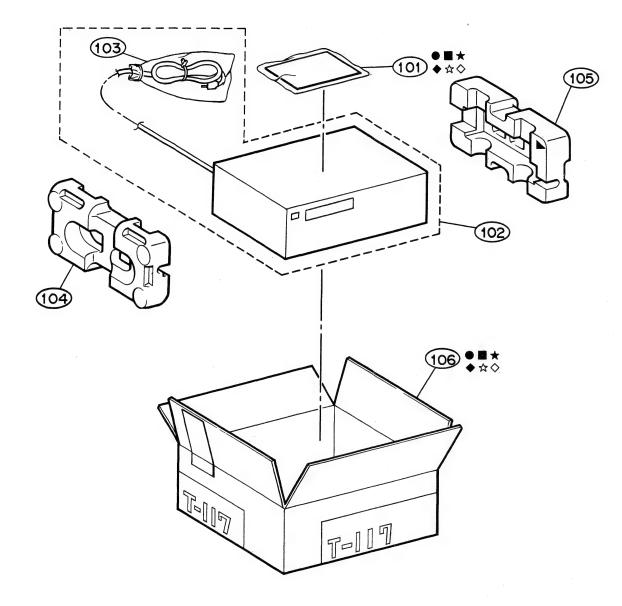
<sup>★ :</sup> For General Foreign model only (EK)

<sup>◆:</sup> For West Germany model only (T-117L SD)

<sup>☆:</sup> For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common



## **Packing Method View**



## **Packing Assembly Parts List**

S	ymbol No.	Part No.	Description			S	ymbol No.	Part No.	Description		
•	101-1	68P83132F28	Owner's Manual								
	101-1	68P83132F29	Owner's Manual							1 1	
*	101-1	68P83132F30	Owner's Manual							1 1	
•	101-1	68P83132F30	Owner's Manual							1 1	
☆	101-1	68P83710F10	Owner's Manual								
н	101-1	00109110110	Owner's Manual								
				- 1						1 1	
<b>\</b>	101-1		Owner's Manual			1 1				1 1	
•	101-2	85T90254F01	Antenna, FM			1 1				1 1	
	101-2	85T90254F02	Antenna, FM	- 1						1 1	
*	101-2	85T90254F02	Antenna. FM	- 1							
•	101-2		Antenna. FM	- 1						1 1	
•		00100201102									
.	101.0	05700054700	Antonno PM		- 1						
*	101-2		Antenna, FM								
<b>&gt;</b>	101-2	85T90254F02	Antenna. FM	- 1	- 1						
	101-8	85T84674F01	Antenna, AM		- 1						
	101-4	28T84675F01	Plug, F-Type (FM)								
•	101-5		Plug. TV. Antenna								
		M			- 1						
	101-5	09T71169F01	Plug. TV. Antenna								
*		09T71169F01			1						
. 1	101-5		Plug. TV. Antenna	- 1	l						
•	101-5	09T71169F01	Plug. TV. Antenna		l						
-	101-6	28T70621F03	Plug, Output							1 1	•
	101-7	01T82091F01	Assy, Mini Plug Cord								
-	101-8	28T67347F01	Plug Audio Cable								
>	101-8	28T67347F01	Plug Audio Cable								
	102	56B40442T07	Packing, Front Frame			11					
	103	56B40230G08	Sack, Polyethylene								
	104	56D81391F01	Packing, Tray		l						
- 1				ŀ	١						
	105	56D81391F02	Packing. Tray	1	ı						
	106	56S71001F96	Carton. Packing		ı						
	106	56S83833F15	Carton, Packing								
+	108	56S83833F15	Carton, Packing								
. 1	106									1 1	
	100	56S83833F18	Carton, Packing								
		PAGACATATE			ı						
7	106	56S83833F20	Carton, Packing								
>	106	56S83833F19	Carton. Packing								
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Note: ●: For Japanese model only (JA)

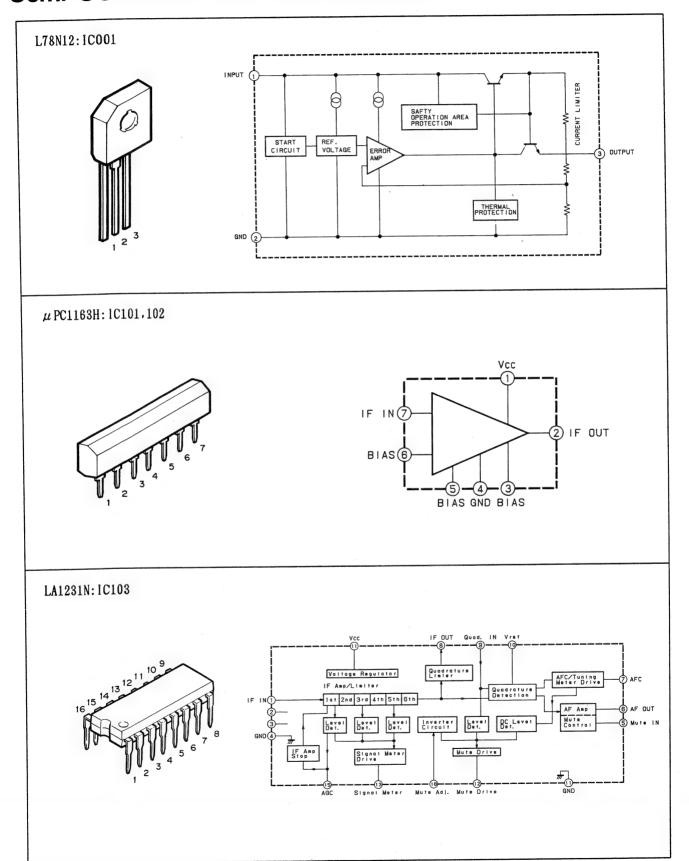
: For North American model only (UZ)

<sup>★:</sup> For General Foreign model only (EK)

<sup>◆:</sup> For West Germany model only (T-117L SD)

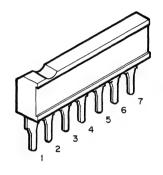
<sup>☆:</sup> For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

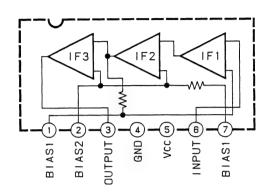
## Semi-Conductor Lead Identifications



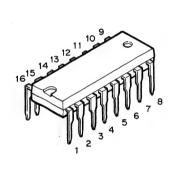
# BA401: IC104 GND Vcc INPUT BIAS OUTPUT μ PC1211V: IC201 O DETECTION OUT vco AGC OUT O BU4053B: IC202.506 VDD 📵 INH 6 A 11 B 10 C 9 BINARY TO 1012 LEVEL DECODER WITH INHIBIT CONVERTER X0 (1 X1 🛈 Y0 ( Y1 ( Z0

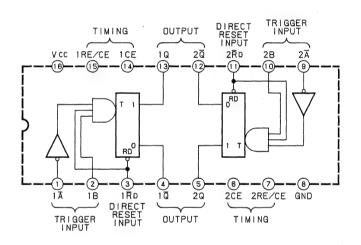
#### BA402:1C203



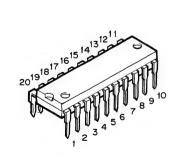


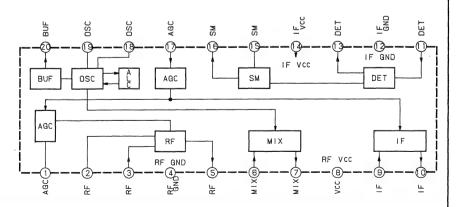
#### M74LS123P: IC204



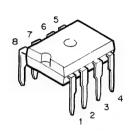


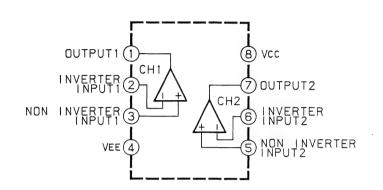
#### LA1245: IC301



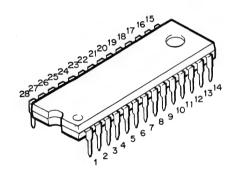


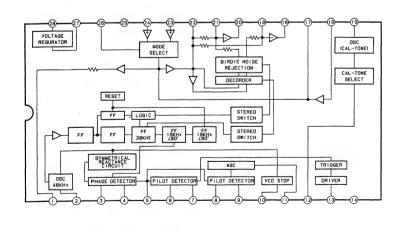
### M5238P: IC401,404



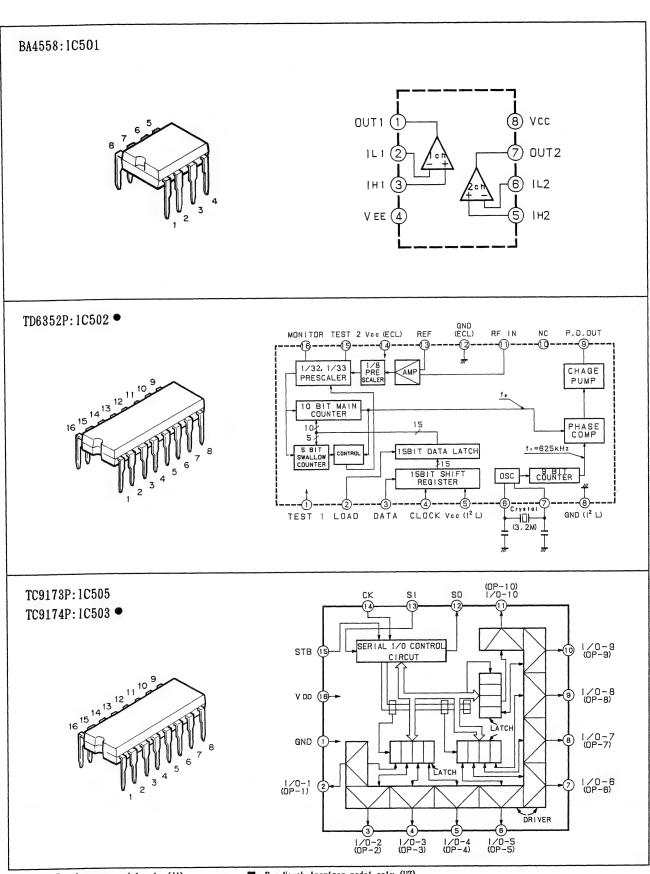


#### LA3450: IC402





Pin No	DESCRIPTION
1	COMPOSITE AMP OUT
2	OSC
3	LOOP FILTER
4	LOOP FILTER
5	PLL IN
6	PILOT SYNC DETECT FILTER
7	PILOT SYNC DETECT FILTER
8	PILOT SYNC DETECT FILTER
9	PILOT SYNC DETECT FILTER
10	VCO STOP
11	PILOT CANCEL
12	CAL-TONE CONTROL
13	STEREO INDICATOR
14	GND
15	CAL-TONE OSC OUT
16	CAL-TONE IN
17	PILOT CANCEL IN
18	POST AMP OUT
19	POST AMP IN
20	POST AMP OUT
21	POST AMP IN
22	SEPARATION ADJ
23	AM IN
24	FM IN
25	SIGNAL GND
26	AM/FM SELECT
27	V REF
28	POWER SUPPLY

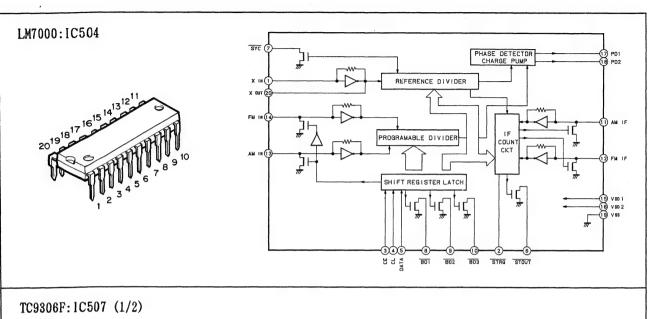


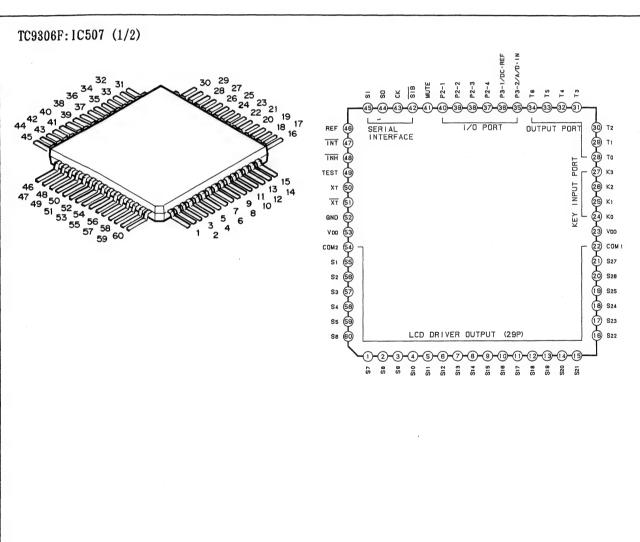
★: For General Foreign model only (EK)

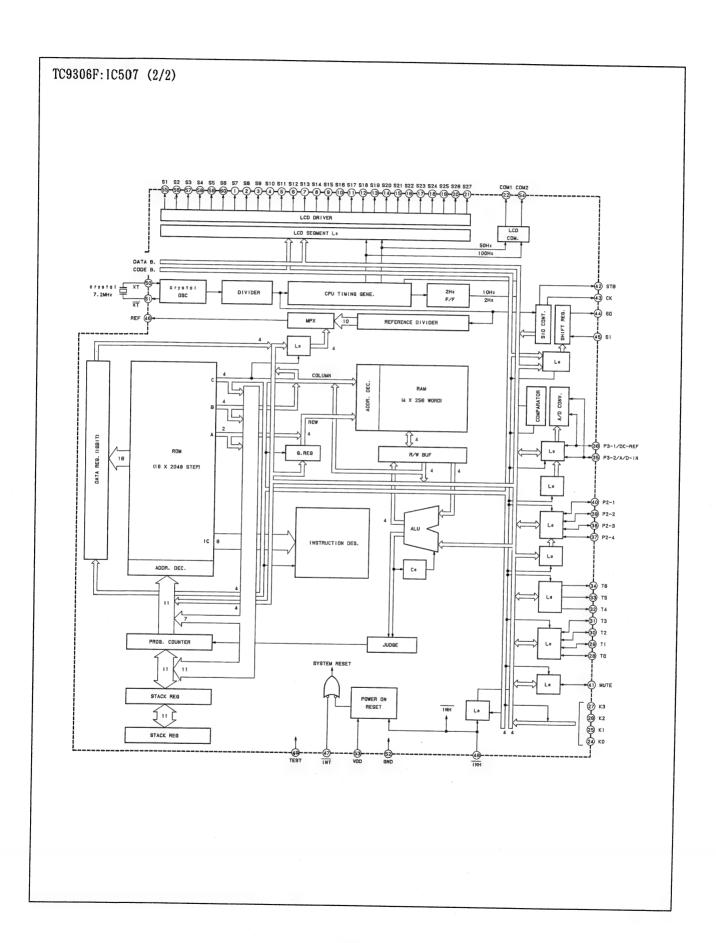
■: For North American model only (UZ)

◆ : For West Germany model only (T-117L SD)

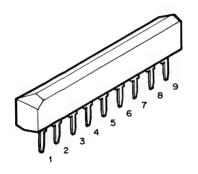
☆: For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

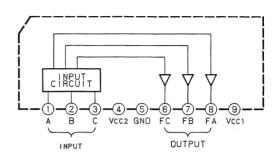




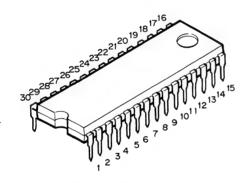


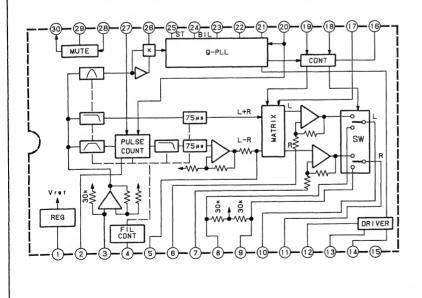
#### LA7905: IC601





#### LA3801: IC701 •





- N	DECOR LIMITOR
Pin No	DESCRIPTION
1	Vcc
2	PULSE COUNT BIAS
3	TV IN
4	FILTER ADJ.
5	SEPALATION ADJ.
6	L CH (MAIN) GAIN
7	R CH (SUB) GAIN
- 8	FM (L) IN
9	FM (R) IN
10	AM (L) OUT
11	AM (R) OUT
12	ST IND.
13	BIL. (MAIN) IND.
14	BIL. (SUB) IND.
15	GND
16	TV/FM
17	PALARITY
18	BIL. (MAIN)
19	BIL. (SUB)
20	VCO-STOP
21	CERAMIC FILTER
22	PLL LPF
23	PLL LPF
24	BIL.SYNCHRONOUS DETECTION LPF
25	ST SYNCHRONOUS DETECTION LPF
26	AM DETECTION LPF
27	PULSE COUNT LPF
28	MUTE IN
29	Vcc ON/OFF MUTE
30	MUTE DRIVE

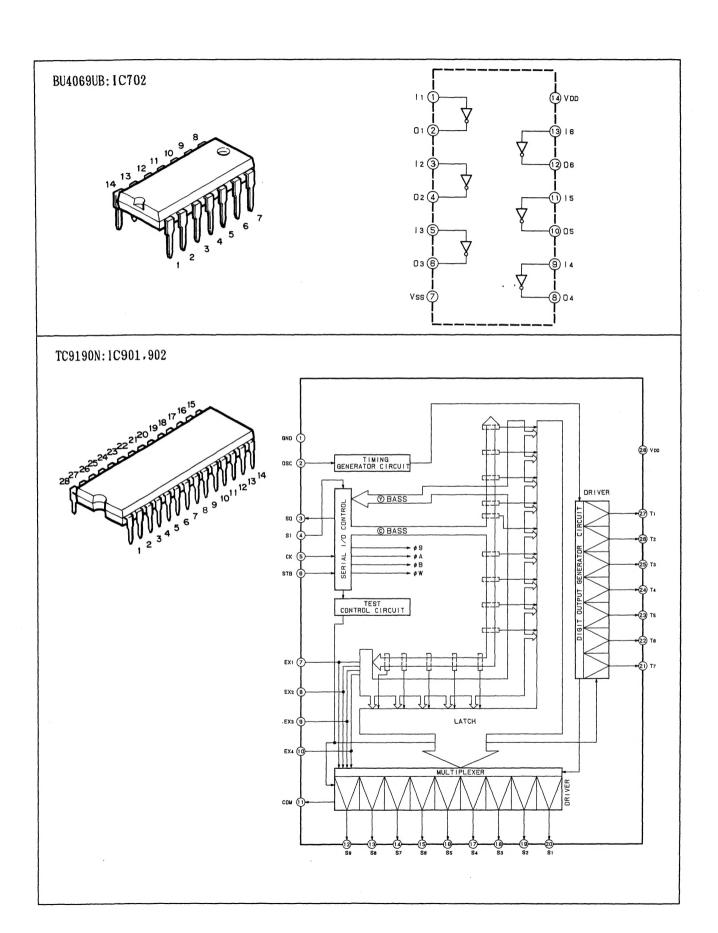
Note: ●: For Japanese model only (JA)

★: For General Foreign model only (EK)

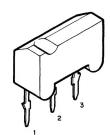
★: For General Foreign model only (T-03 EK)

★: For West Germany model only (T-03L SD)

Others: Common

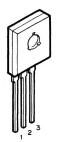


#### 2SD1330:Q1002



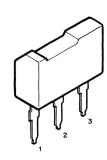
- 1. Emitter
- 2. Collector
- 3. Base

2SD1563:Q001



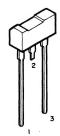
- 1. Emitter
- 2. Collector
- 3. Base

#### 2SD1225M:Q001 ☆★◇◆■



- 1. Emitter
- 2. Collector
- 3. Base

2SA1555AB:Q008.010.011 ◆◇◆
2SC4032AB:Q006.012.111 ◆



- 1. Emitter/GND
- 2. Collector/OUT
- 3. Base/IN

2SA1015:Q1001.505 ●◇◆

2SA1015:-Q116.308.404.411.501.503.504.217 ◆ 2SA933A:-Q307 ◆ +.801.116

 $2SC1740: Q002.003.004.005.007.009.015.104.105.107.108.109 •.112.115.117.118 •.210.211.212.213.28C1815: Q214.302.305.306.405 •.410.412 •.502.203 <math>\Leftrightarrow$  •.215  $\Leftrightarrow$  •.216  $\Leftrightarrow$  •.301  $\Leftrightarrow$  •.401  $\Leftrightarrow$  •.401

2SC1815:Q119.802

2SC1674:Q206.207.208.303.601 •.602 • > •

2SC1675:Q209,603

2SD1302:Q402.403.409



- 1. Emitter
- 2. Collector
- 3. Base

Note: •: For Japanese model only (JA)

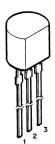
<sup>■:</sup> For North American model only (UZ)

•: For West Germany model only (T-117L SD)

<sup>★:</sup> For General Foreign model only (EK)

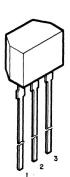
<sup>☆:</sup> For General Foreign model only (T-03 EK) ◇: For West Germany model only (T-03L SD) Others: Common

## 2SK246:Q113.114.201.202.406



- 1. Source
- 2. Gete
- 3. Drein

#### 2SK241:Q205



- 1. Drein
- 2. Source
- 3. Gete

#### 2SK301:Q407 • . 408 •

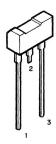


- 2. Gete
- 3. Source

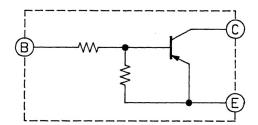


- 1. Drein

#### DTA124EL:Q510 ■



- 1. Emitter
- 2. Collector
- 3. Base



- MEMO	